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POMONA COLLEGE

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Annual Catalog

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Claremont,
California

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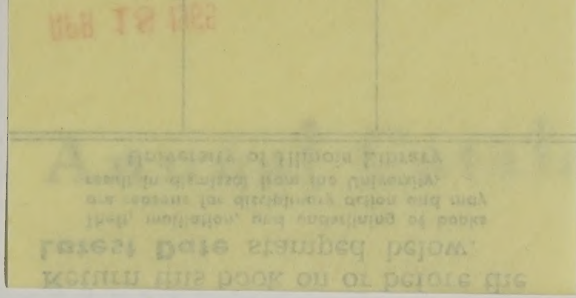
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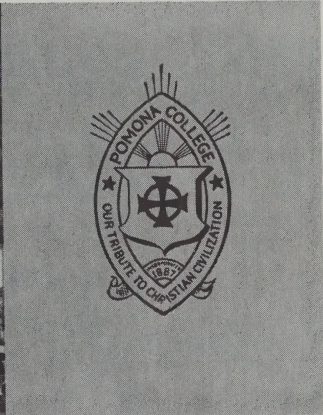
Vol. LXII July, 1964 No. 1



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1964

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POMONA
COLLEGE

*Claremont,
California*

CALENDAR FOR 1964

JANUARY							FEBRUARY							MARCH							APRIL								
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CALENDAR FOR 1965

JANUARY							FEBRUARY							MARCH							APRIL									
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER									
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COLLEGE CALENDAR FOR 1964-1965

First Semester

SEPTEMBER 18, FRIDAY	Faculty Meeting, 4:15 p.m. Residence halls open to new students only. First meal served, dinner at 6 p.m.
SEPTEMBER 18-21	Program for new students.
SEPTEMBER 21, MONDAY	Conference day and registration for new students.
SEPTEMBER 22 AND 23, TUESDAY AND WEDNESDAY	Residence halls open for returning students. Only those returning students who have been officially requested to arrive in Claremont earlier may be admitted to campus residence before this date. First meal served to returning students, breakfast, Tuesday. Registration for returning students.
SEPTEMBER 24, THURSDAY	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
OCTOBER 5, MONDAY	Last day for entering classes. Last day for withdrawal from Military Science 1a-b.
OCTOBER 20, TUESDAY	Founders Day Convocation, Flame Ceremony, 11 a.m.
OCTOBER 24, SATURDAY	Parents Day.
OCTOBER 29, THURSDAY	Final day for withdrawal from classes without penalty.
NOVEMBER 13, FRIDAY	Low grade reports due.
NOVEMBER 25, WEDNESDAY	Thanksgiving recess begins, 9:30 p.m.
NOVEMBER 30, MONDAY	Thanksgiving recess ends, 8 a.m.
DECEMBER 19, SATURDAY	Christmas vacation begins, noon.
JANUARY 4, MONDAY	Christmas vacation ends, 8 a.m.
JANUARY 21, THURSDAY	Last day of classes.
JANUARY 25, MONDAY	Final examinations begin.
FEBRUARY 3, WEDNESDAY	Final examinations end.
FEBRUARY 6, SATURDAY	First semester ends.

COLLEGE CALENDAR FOR 1964-1965

Second Semester

FEBRUARY 8, MONDAY	Second semester classes begin, 8 a.m. Registration for all students.
FEBRUARY 9, TUESDAY	Continue registration for all students.
FEBRUARY 16, TUESDAY	Matriculation and Second Semester Convocation, 11 a.m.
FEBRUARY 18, THURSDAY	Last day for entering classes.
MARCH 15, MONDAY	Final day for withdrawal from classes without penalty.
MARCH 29, MONDAY	Low grade reports due.
APRIL 3, SATURDAY	Spring vacation begins, noon.
APRIL 12, MONDAY	Spring vacation ends, 8 a.m.
MAY 21 AND 22, FRIDAY AND SATURDAY	Hour examinations for Seniors only (optional with instructors). No classes for Seniors after May 22.
MAY 25, TUESDAY	Last day of classes.
MAY 27, THURSDAY	Comprehensive examinations.
MAY 28, FRIDAY	Final examinations begin.
MAY 29, SATURDAY	Comprehensive examinations.
MAY 29, SATURDAY	Memorial Convocation.
JUNE 5, SATURDAY	Final examinations end.
JUNE 5, SATURDAY	Alumni Day.
JUNE 6, SUNDAY	Baccalaureate Service, 11 a.m.
JUNE 6, SUNDAY	Commencement, 4:30 p.m.

BOARD OF TRUSTEES

OFFICERS

Paul Fussell, *President*
Leonard A. Shelton, *Vice-President*

Ranney C. Draper, *Vice-President*
Rudolph J. Wig, *Vice-President*

TERM OF OFFICE EXPIRES:

JUNE, 1965

Edwin F. Hahn, Jr., *Pasadena*
Mrs. Valley M. Knudsen, *Glendale*
Herbert S. Rempel, *Pasadena*
Frank R. Seaver, *Los Angeles*
Leonard A. Shelton, *Claremont*
Charles B. Stauffacher,
New York, N. Y.

JUNE, 1966

W. P. Fuller Brawner, *Hillsborough*
John H. Burt, *Pasadena*
Yale B. Griffith, *Santa Barbara*
E. Wilson Lyon, *Claremont*
Karl B. Rodi, *Beverly Hills*
H. Russell Smith, *San Marino*

JUNE, 1967

Lawrence T. Cooper, *Altadena*
Rollin Eckis, *Bradbury*
Robert V. Edwards, *Arcadia*
Louis B. Lundborg, *San Marino*
Robert R. Sprague, *Los Angeles*
Rudolph J. Wig, *Pasadena*

JUNE, 1968

Cyril Chappellet, *Los Angeles*
James M. Gerstley, *Portola Valley*
S. Rodman Irvine, *Beverly Hills*
Mrs. Victor Montgomery,
Beverly Hills
Morris B. Pendleton, *San Marino*
Samuel R. Raymond, *Los Angeles*
Edward E. Tuttle, *Pasadena*

JUNE, 1969

Robert B. Coons, *Los Angeles*
John W. Dodds, *Palo Alto*
Ranney C. Draper, *Monrovia*
Paul Fussell, *Pasadena*
Albert H. MacLeod, *Chicago, Illinois*
Maurice H. Stans, *Pasadena*

HONORARY MEMBERS

Paul S. Armstrong, *Los Angeles*
Frederick S. Bale, *Pasadena*
George W. Bryant, *San Marino*
William W. Clary, *Pasadena*
Charles Detoy, *Pasadena*
Charles E. Donnelly, *Los Angeles*
George L. Eastman, *Hollywood*
Mary Clark Eversole, *Santa Barbara*
Allen F. Hawley, *Claremont*
William B. Himrod, *Los Angeles*
Ernest E. Jones, *Claremont*
George R. Martin, *Los Angeles*
Arthur J. McFadden, *Santa Ana*
Seeley G. Mudd, *San Marino*
Mary McLean Olney, *Berkeley*
Fred W. Smith, *Ojai*
Roy E. Thomas, *Los Angeles*
Carl I. Wheat, *Menlo Park*

EX-OFFICIO MEMBERS

President of Claremont Graduate
School and University Center
President of the Alumni Association
President of the Women's Campus
Club
President of the Pomona College
Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, 1890-1897
Franklin L. Ferguson, 1897-1901

George A. Gates, 1901-1910
James A. Blaisdell, 1910-1928

Charles K. Edmunds, 1928-1941

GENERAL ADMINISTRATION

1964-65

ELIJAH WILSON LYON, <i>President</i> B.A., University of Mississippi; B.A., M.A., B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; D.Litt., Occidental College; L.H.D., Trinity College; LL.D., University of California.	Sumner Hall
RICHARD T. NIMMONS, <i>Vice-President for Administration and Development</i> B.A., Pomona College.	Sumner Hall
JOHN WHITE HARTLEY, <i>Controller and Business Manager</i> B.A., M.B.A., Stanford University.	Pendleton Bldg.
WILLIAM V. SHANNON, <i>Treasurer</i> B.S., Virginia Military Institute.	Pendleton Bldg.
WILLIAM B. HIMROD, <i>Assistant to the President</i> B.A., Pomona College; Graduate Student, University of Southern California.	Sumner Hall
ORLANDO R. DAVIDSON, <i>Director of Development</i> B.A., Reed College.	Sumner Hall
DOUGLAS F. SCOTT, <i>Director of Estate Planning</i> Student at University of Washington.	Sumner Hall
R. COLEMAN GAY, III, <i>Assistant Director of Estate Planning</i> B.A., Pomona College; LL.B., Harvard University Law School.	Sumner Hall
RICHARD C. HILL, <i>Assistant Controller</i> B.A., Pomona College; M.B.A., Stanford University.	Pendleton Bldg.
CHARLES M. CRAWFORD, JR., <i>Assistant Treasurer</i> B.S., University of Southern California.	Pendleton Bldg.
JOHN M. HARTKE, <i>Assistant Treasurer</i>	Pendleton Bldg.
MORTON C. JOHNSON, <i>Director of Alumni Relations</i> B.A., Pomona College.	Sumner Hall
JOSEPH R. HENRY, <i>Administrative Assistant</i> B.A., Pomona College.	Sumner Hall
GEORGE F. SWEENEY, <i>Director of the News Bureau</i> Student at University of Minnesota.	Sumner Hall
AGNES M. JOHNSON, <i>Executive Secretary to the President</i> M.A., Pomona College.	Sumner Hall
LUCILLE GRAMSE MCCARTHY, <i>Director of Dining Halls</i> B.S., M.S., Kansas State College of Applied Sciences.	Frary Hall
ETHEL MOORE, <i>Director of Residence Halls</i>	Mudd Hall
GEORGE W. CONN, <i>Campus Engineer</i> B.S., Bradley University.	303 E. First St.

Emeriti

Date denotes beginning of original term of service.

ADMINISTRATION AND FACULTY

- ALLEN F. HAWLEY 132 W. Eighth St.
Vice-President Emeritus, 1938.
B.A., Pomona College; Graduate Student, Harvard University; LL.D., Pomona College.
- ERNEST E. JONES 905 College Ave.
Treasurer Emeritus, 1909.
B.A., Pomona College.
- VIRGINIA PRINCEHOUSE ALLEN 175 E. Twelfth St.
Emeritus Associate Professor of Dramatics, 1930.
B.A., Pomona College; Graduate Study, Department of Drama, Yale University; M.A., Claremont Graduate School.
- WALTER ALFRED ALLEN 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University; Associate, American Guild of Organists.
- GRACE ELLA BERRY 590 S. Indian Hill Blvd.
Emeritus Dean of Women and Associate Professor of Mathematics, 1909.
B.S., M.A., Mount Holyoke College.
- JAMES WHITE CROWELL 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.
- HAROLD DAVIS 612 W. Tenth St.
Emeritus Professor of English, 1927.
B.A., Stanford University; B.A., and B.Litt., University of Oxford.
- ROBERT SIDNEY ELLIS 11768 Preston Lane, Yucaipa
Emeritus Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.
- CHARLES TABOR FITTS 650 W. Harrison Ave.
Emeritus Professor of Education, 1919.
B.A., Amherst College; M.A., University of California, Berkeley; Graduate Study, Harvard University.
- COLVIN HEATH 750 Indian Hill Blvd.
Emeritus Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.

- HUBERT HERRING 765 Indian Hill Blvd.
Emeritus Professor of Latin American Civilization, 1945.
 B.A., Oberlin College; M.A., Columbia University; Graduate, Union Theological Seminary; LL.D., Claremont Graduate School.
- WILLIAM ATWOOD HILTON 1263 Dartmouth Ave.
Emeritus Professor of Zoology, 1905.
 B.S., Ph.D., Cornell University.
- FRANCIS RAYMOND IREDELL 1060 N. College Ave.
Emeritus Dean of the Faculty, and Professor of Philosophy, 1925.
 B.A., Pomona College; M.A., Ph.D., Harvard University.
- CHESTER GEORGE JAEGER 4456 Oak Lane
Emeritus Professor of Mathematics, 1931.
 B.A., B.S., M.A., Ph.D., University of Missouri
- ELLIOTT CURTIS LINCOLN 472 W. Tenth St.
Emeritus Professor of English, 1924.
 B.A., Colby College; M.A., State College of Washington and Harvard University.
- EARL JAY MERRITT Third and B Sts., La Verne
Emeritus Professor of Physical Education for Men, 1925.
 B.A., Pomona College; M.A., Claremont Graduate School.
- EUGENE WHITE NIXON 1351 Tulane Rd.
Emeritus Professor of Physical Education for Men, 1916.
 B.A., Monmouth College; M.A., Columbia University; Graduate Study, Illinois and California Universities.
- ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Emeritus Professor of Physical Education for Men, 1923.
 B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Berkeley, and Stanford University.
- EMILIE ELIZABETH WAGNER 783 W. Tenth St.
Emeritus Associate Professor of German, 1928.
 B.A., Smith College; M.A., Pennsylvania State College; Doctorate de l'Université mention Lettres, Toulouse.
- WALTER TICKNOR WHITNEY 710 W. Ninth St.
Emeritus Professor of Astronomy, 1929.
 B.S., M.S., Pomona College; Ph.D., University of Chicago.
- ALFRED OSWALD WOODFORD 760 W. Ninth St.
Emeritus Professor of Geology, 1915.
 B.A., Pomona College; Ph.D., University of California, Berkeley.

The Faculty

Date denotes beginning of original term of service.

ADMINISTRATIVE OFFICERS

- ELIJAH WILSON LYON 345 N. College Ave.
President, 1941.
B.A., University of Mississippi; B.A., M.A., B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; Litt.D., Occidental College; L.H.D., Trinity College; LL.D., University of California.
- ERNEST ALBERT STRATHMANN 160 W. Eleventh St.
Dean of the Faculty, 1959; Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.
- J. EDWARD SANDERS 310 Radcliffe Drive
Dean of Students, 1942.
B.A., Hendrix College; M.A., Ph.D., Columbia University.
- SHELTON L. BEATTY 156 E. Seventh St.
Dean of Men, 1949.
B.A., University of Tennessee; M.A., Cornell University; Ph.D., Stanford University.
- JEAN B. WALTON 562 Baughman Ave.
Dean of Women on the Martha N. Hathaway Fund, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania.
- WILLIAM L. WHEATON² 328 Oakdale Dr.
Director of Admissions, 1949.
B.A., Pomona College; M.A., New York University.
- HERBERT B. SMITH 777 W. Ninth St.
Director of Financial Aid and Acting Director of Admissions, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California, Berkeley.
- MASAGO ARMSTRONG 4003 N. Garey Ave., La Verne
Registrar, 1955.
B.A., M.A., Stanford University.
- DAVID W. DAVIES 524 W. Tenth St.
Librarian, 1947.
B.A., University of California at Los Angeles; M.A., University of California, Berkeley; Ph.D., University of Chicago.
- MYRON G. CHAPMAN 537 W. Eighth St.
Physician of The Claremont Colleges, 1961.
Ph.B., B.S., M.D., University of Chicago.
- ROBERT W. EDWARDS 723 Purdue Dr.
Associate Physician of The Claremont Colleges, 1962.
B.A., Dartmouth College; M.D., University of Kansas.
- EDGAR C. RECKARD, JR.³ 710 N. College Ave.
Chaplain of The Claremont Colleges, 1958.
B.A., Yale University; B.D., Yale Divinity School; graduate study, University of Edinburgh.
- THOMAS BRIGANTE 327 Harvard Ave.
Director of The Claremont Colleges Counseling Center, 1962.
B.A., University of Buffalo; M.S., Harvard University; M.A., Ph.D., Boston University.

- ELVA F. BROWN 852 W. Bonita Ave.
Director of Placement, 1963.
 B.A., M.A., University of California, Berkeley.
- EDITH CALVERT
Assistant Dean of Women, 1964.
 B.A., University of Arkansas; M.Ed., University of Florida; doctoral candidate,
 Claremont Graduate School.
- LARIMORE R. NICHOLL 260 E. Third St.
Assistant Director of Admissions, 1963.
 B.A., Colorado College.
- MICHAEL R. HARRIS
Assistant Director of Admissions, 1964.
 B.A., M.A., and doctoral candidate, Stanford University.
- INA T. NIDER Harwood Court
Social Director, Women's Campus, 1948.
 B.A., Fresno State College; M.A., Columbia University.
- ALAN C. BATCHELDER Clark Hall
Social Director, Men's Campus, 1962.
 B.A., Simpson College; M.A. candidate, Claremont Graduate School.

PROFESSORS

- GEORGE R. ADJEMIAN 633 Converse
Professor of Military Science, 1963.
 B.S., United States Military Academy; Command and General Staff School; Ad-
 vanced Officer Course, U. S. Army Infantry School; Colonel, Infantry, U. S. Army.
- YOST U. AMREIN³ 456 Harrison Ave.
Willard George Halstead Professor of Zoology, 1951.
 B.A., M.A., Ph.D., University of California at Los Angeles.
- CARL BAUMANN 567 W. Eighth St.
Professor of German, 1931.
 Ph.D., University of Basel.
- GRAHAM B. BELL 1482 Wells St.
Professor of Psychology, 1956.
 B.A., Wesleyan University; M.A., Ph.D., Northwestern University.
- LYMAN BENSON³ 1430 Via Zurita
Henry Kirke White Bent Professor of Botany, 1944.
 B.A., M.A., Ph.D., Stanford University.
- FREDERICK BRACHER² 230 W. Seventh St.
Arthur M. and Fanny M. Dole Professor of English, 1944.
 B.S., Oregon State University; M.A., Ph.D., University of California, Berkeley.
- HARRY JOSEPH CARROLL, JR. 1476 Indian Hill Blvd.
Edwin Clarence Norton Professor of Classics, 1948.
 B.A., University of Akron; M.A., Ph.D., Harvard University.
- CH'EN SHOU-YI 769 W. Ninth St.
Professor of Chinese Culture, 1941.
 B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academia
 Sinica.
- LORNE D. COOK 995 W. Harrison Ave.
Professor of Economics, 1954.
 B.A., M.A., Ph.D., University of Michigan.

- KENNETH L. COOKE 654 Northwestern Dr.
Joseph N. Fiske Professor of Mathematics, 1957.
 B.A., Pomona College; M.A., Ph.D., Stanford University.
- KENNETH G. FISKE 585 W. Twelfth St.
Professor of Music, 1936.
 B.Mus., M.Mus., American Conservatory of Music; Pupil of Leon Sametini, Jacques Gordon, Otokar Sevcik.
- CHARLES A. FOWLER, JR. 366 Blaisdell Dr.
Seeley W. Mudd Professor of Physics, 1947.
 B.A., M.S., University of Utah; Ph.D., University of California, Berkeley.
- EDWARD MONTGOMERY FRYER 440 W. Eleventh St.
Professor of Physics, 1946.
 B.A., Pomona College; Engineer (Mech.), Ph.D., Stanford University.
- JOHN HOWES GLEASON³ 512 Baughman Ave.
Warren Finney Day Professor of History, 1939.
 B.A., Ph.D., Harvard University; B.Litt., University of Oxford.
- HUGH J. HAMILTON 468 Grinnell Dr.
Professor of Mathematics, 1936.
 B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.
- CORWIN HERMAN HANSCH 4070 Olive Knoll Place
Professor of Chemistry, 1946.
 B.S., University of Illinois; Ph.D., New York University.
- BURTON HENKE 121 Brown Drive
Professor of Physics, 1948.
 B.A., Miami University; M.A., Ph.D., California Institute of Technology.
- CHARLES SHIVELEY HOLMES 1010 Berkeley Ave.
Professor of English, 1941.
 B.A., Oberlin College; Ph.D., Princeton University.
- CLARENCE J. HYLANDER
Visiting Professor of Botany, 1964.
 B.A., M.A., Ph.D., Yale University.
- WILLIAM THOMAS JONES 4201 Via Padova
Robert C. Denison Professor of Philosophy, 1938.
 B.A., Swarthmore College; B.Litt., University of Oxford; Ph.D., Princeton University.
- BJARNI BRAGI JÓNSSON
NATO Visiting Professor of Economics, first semester, 1964-65.
 Director of Research, Economic Institute of Iceland, Reykjavík. B.A., University of Iceland; graduate study, University of Cambridge, England.
- JOHN HASKELL KEMBLE 452 W. Sixth St.
Professor of History, 1936.
 B.A., Stanford University; M.A., Ph.D., University of California, Berkeley.
- ROBERT F. LEGGEWIE² 4412 Rhodelia Ave.
Professor of Romance Languages, 1951.
 B.S., Loyola University; M.A., University of Southern California; M.A., Ph.D., Harvard University.
- EDWARD W. MALAN 433 Sycamore Ave.
Professor of Physical Education for Men and Director of Athletics, 1950.
 B.A., Pomona College; M.A., Claremont Graduate School; Ed.D., University of California at Los Angeles.

- LEE CAMERON McDONALD 695 S. Bucknell
Professor of Government, 1952.
 B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Harvard University.
- DONALD B. MCINTYRE 625 W. Twelfth St.
Professor of Geology, 1954.
 B.Sc., Ph.D., D.Sc., University of Edinburgh.
- HENRY CORD MEYER 470 Harrison Ave.
Professor of History, 1946.
 B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.
- FREDERICK LUDWIG MULHAUSER, JR. 424 W. Eleventh St.
Phebe Estelle Spalding Professor of English, 1941.
 B.A., College of Wooster; M.A., Ph.D., Yale University.
- EDWIN ALLEN PHILLIPS 1201 N. College Ave.
Professor of Botany, 1948.
 B.A., Colgate University; M.A., Ph.D., University of Michigan.
- GERHARD N. ROSTVOLD 1045 Yale Ave.
Stedman-Sumner Professor of Economics, 1952.
 B.A., M.A., Ph.D., Stanford University.
- WILLIAM F. RUSSELL 382 E. Blaisdell Dr.
David J. Baldwin Professor of Music, 1951.
 B.A., Columbia University; M.A., Harvard University.
- DWIGHT LEONARD RYERSON 472 Cedar Crest Ave.
Professor of Zoology, 1946.
 B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.
- ALVIN HEWITT SCAFF 330 Radcliffe Dr.
Henry Snyder Professor of Sociology, 1947.
 B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., University of Texas.
- R. NELSON SMITH 115 Brown Dr.
Carnegie Professor of Chemistry, 1945.
 B.A., Pomona College; M.A., Ph.D., Stanford University.
- WALTER B. SMITH
Visiting Professor of Economics, second semester, 1964.
 Emeritus Professor of American Economic Institutions, Claremont Men's College.
 B.A., Oberlin College; M.A., Ph.D., Harvard University.
- FREDERICK SONTAG 1120 Indian Hill Blvd.
Professor of Philosophy, 1952.
 B.A., Stanford University; M.A., Ph.D., Yale University.
- ERNEST ALBERT STRATHMANN 160 W. Eleventh St.
Professor of English, 1932; Dean of the Faculty, 1959.
 B.A., M.A., Ph.D., Johns Hopkins University.
- ELMER B. TOLSTED 337 W. Fifth St.
Professor of Mathematics, 1947.
 B.S., M.S., University of Chicago; Ph.D., Brown University.
- JOHN ALBERT VIEG 910 Oxford Ave.
Professor of Government, 1945.
 B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.

- EDWARD WEISMILLER 510 W. Tenth St.
Professor of English, 1949.
 B.A., D.Litt., Cornell College; M.A., Harvard University; D.Phil., University of Oxford.

ASSOCIATE PROFESSORS

- C. FREEMAN ALLEN 394 E. Blaisdell Dr.
Associate Professor of Chemistry, 1954.
 B.S., University of California, Berkeley; Ph.D., University of Wisconsin.
- ALEXANDER K. BAIRD² 1888 Morgan Ave.
Associate Professor of Geology, 1958.
 B.A., Pomona College; M.A., Claremont Graduate School; Ph.D., University of California, Berkeley.
- MORTON O. BECKNER 630 Harvard Ave.
Associate Professor of Philosophy, 1957.
 B.A., University of California at Santa Barbara; M.A., Ph.D., Columbia University.
- WILLIAM G. BLANCHARD 1495 Via Zurita
Associate Professor of Music and College Organist, 1936.
 B.Mus., DePauw University; M.Mus., University of Michigan; Further Study with Carl Weinrich and Hugh Porter in Organ and with Seth Bingham in Composition.
- MARGERY SMITH BRIGGS 4549 Live Oak Dr.
Associate Professor of Music, 1943.
 B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.
- ELIZABETH CAWTHORNE 512 Northwestern Dr.
Associate Professor of Physical Education for Women, 1935.
 B.A., M.A., University of California, Berkeley.
- MARGARET GAY DAVIES 395 S. Bonnie Ave., Pasadena
Associate Professor of History, 1952.
 B.A., M.A., Ph.D., Radcliffe College.
- WILLIAM L. FAUST 1100 Harvard Ave.
Associate Professor of Psychology, 1953.
 B.A., M.A., Ph.D., Stanford University.
- ROBERT L. FERM³ 248 W. Seventh St.
John Knox McLean Associate Professor of Religion, 1958.
 B.A., College of Wooster; B.D., Yale Divinity School; M.A., Ph.D., Yale University.
- RAY FRAZER 1102 N. College Ave.
Associate Professor of English, 1952.
 B.A., Pomona College; M.A., Ph.D., University of California, Berkeley.
- HOUSTON I. FLOURNOY 755 W. Tenth St.
Associate Professor of Government, 1957.
 B.A., Cornell University; M.A., Ph.D., Princeton University.
- ROBERT J. FOGELIN³ 642 N. College Ave.
Associate Professor of Philosophy, 1958.
 B.A., University of Rochester; M.A., Ph.D., Yale University.
- SALVATORE GRIPPI 808 N. College Ave.
Associate Professor of Art, 1962.
 Studied at Art Students' League; Atelier 17, New York City; Instituto d'Arte, Florence, Italy.

- ROBERT D. HERMAN 357 W. Tenth St.
Associate Professor of Sociology, 1960.
 B.A., Pomona College; M.A., Ph.D., University of Wisconsin.
- GRETCHEN GRAF JORDAN¹ 354 Blaisdell Dr.
Associate Professor of English, 1947.
 B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.
- KARL GEORGE KOHN 674 W. Tenth St.
Associate Professor of Music, 1950.
 B.A., M.A., Harvard University.
- VINCENT H. LEARNIHAN 420 Baughman Ave.
Associate Professor of History, 1949.
 B.A., M.A., Ph.D., University of California at Los Angeles.
- CHARLES M. LESLIE 122 E. Seventh St.
Associate Professor of Sociology and Anthropology, 1956.
 B.A., M.A., Ph.D., University of Chicago.
- RICHARD N. LOUCKS 176 W. Oak Park Dr.
Associate Professor of Music, 1948.
 B.A., Pomona College; M.A., Ph.D., Eastman School of Music of the University of Rochester.
- NEIL A. MENZIES 10345 Vernon St., Montclair
Associate Professor of Military Science, 1962.
 B.S., Bowling Green State University; Battery Officers Course, Officers Career Course, U. S. Army Artillery and Missile School; Major, Artillery, U. S. Army.
- JACK C. MILLER 725 Miramar Ave.
Associate Professor of Physics, 1952.
 B.A., Pomona College; M.A., University of California; D.Phil., University of Oxford.
- WALTER T. OGIER 717 W. Eighth St.
Associate Professor of Physics, 1960.
 B.S., Ph.D., California Institute of Technology.
- BURDETTE C. POLAND³ 1404 Niagara Ave.
Associate Professor of History, 1958.
 B.A., Swarthmore College; M.A., Ph.D., Princeton University.
- LEONARD C. PRONKO 156 E. Green St.
Associate Professor of Romance Languages, 1957.
 B.A., Drury College; M.A., Washington University; Ph.D., Tulane University.
- POWER B. SOGO 632 Doane Ave.
Visiting Associate Professor of Physics, 1962.
 B.A., San Diego State College; Ph.D., University of California, Berkeley.
- HOWARD THOMAS YOUNG 256 E. Second St.
Associate Professor of Romance Languages, 1954.
 B.S., M.A., and Ph.D., Columbia University.

ASSISTANT PROFESSORS

- MAURICE ALLARD 775 W. Bonita Ave.
Assistant Professor of Music, 1962.
 B.Mus., Indiana University; M.A., New York University; D.Mus. Arts, University of Southern California.
- WALTER E. AMBORD 419 Cedarcrest
Assistant Professor of Physical Education for Men, 1960.
 B.A., M.A., Los Angeles State College.

- WILLIAM D. ANDRUS 130 E. Seventh St.
Assistant Professor of Zoology, 1960.
 B.A., Oberlin College; Ph.D., Stanford University.
- RICHARD G. BARNES 6300 Wheeler, La Verne
Assistant Professor of English, 1961.
 B.A., Pomona College; Ph.D., Claremont Graduate School.
- ALVIN L. BEILBY³ 144 Brown Dr.
Assistant Professor of Chemistry, 1958.
 B.A., San Jose State College; Ph.D., University of Washington.
- DONALD L. BENTLEY
Assistant Professor of Mathematics, 1964.
 B.S., M.S., Ph.D., Stanford University.
- HANS-DIETER BRUECKNER 9152 Calle Vejar, Cucamonga
Assistant Professor of German, 1962.
 B.A., M.A., Ph.D., University of California.
- ROBERT J. CHAMBERS 240 E. Eleventh St.
*Assistant Professor of Astronomy on the Frank P. Brackett Foundation, and
 Director of the Observatory, 1963.*
 B.Sc., University of Washington; Ph.D., University of California.
- NICOLAI CIKOVSKY, JR.
Assistant Professor of Art, 1964.
 B.A., M.A., and doctoral candidate, Harvard University.
- MAURICE E. COPE 105 N. College Ave.
Assistant Professor of Art, 1961.
 M.A., and doctoral candidate, University of Chicago; Student at University of
 Florence, Italy.
- JOHN L. DEUTSCH
Visiting Assistant Professor of Chemistry, 1964.
 B.A., Tulane University; D.Phil., University of Oxford.
- GORDON K. DOUGLASS 389 W. Twelfth St.
Assistant Professor of Economics, 1959.
 B.A., Pomona College; Ph.D., Massachusetts Institute of Technology.
- RICHARD A. DURST
Visiting Assistant Professor of Chemistry, 1964.
 B.S., University of Rhode Island; Ph.D., Massachusetts Institute of Technology.
- JOSEPH GALLY
Visiting Assistant Professor of Chemistry, 1964.
 B.A., Pomona College; Ph.D., Rockefeller Institute.
- ALINE H. KIDD 3951 Lynoak Dr.
Visiting Assistant Professor of Psychology, 1963.
 B.S., M.Clin.Psychol., University of Michigan; Ph.D., University of Arizona.
- BASIL A. LE CORDEUR
Visiting Assistant Professor of History, second semester, 1964.
 Lecturer in History, University of Natal, Durban, Republic of South Africa.
 B.A., M.A., Rhodes University College, Grahamstown, Cape Province, Republic
 of South Africa; Ph.D., University of Natal.
- JOHN D. LINDBERG
Assistant Professor of German, 1960.
 B.A., M.A., Ph.D., University of California at Los Angeles.

- RICHARD E. MACMILLEN 634 N. College Ave.
Assistant Professor of Zoology, 1960.
 B.A., Pomona College; M.Sc., University of Michigan; Ph.D., University of California at Los Angeles.
- JOHN MASON³
Assistant Professor of Art, 1962.
 Studied at Los Angeles County Art Institute; Chouinard Art Institute.
- MARGARET J. MATHIES
Visiting Assistant Professor of Zoology, 1964.
 B.A., Colorado College; Ph.D., Western Reserve University.
- MALCOLM A. MCCLAIN
Visiting Assistant Professor of Art, 1964.
 B.A., Pomona College; study in Los Angeles County Art Museum, Paris, and Mexico.
- LESTER R. NAGLER 3020 Lansbury
Assistant Professor of Physical Education for Men, 1963.
 B.A., Occidental College; M.A., Los Angeles State College.
- THOMAS C. PINNEY 320 Harvard Ave.
Assistant Professor of English, 1962.
 B.A., Beloit College; Ph.D., Yale University.
- JOHN E. QUINLAN³ 119 N. College Ave.
Assistant Professor of Chemistry, 1958.
 B.S., Marquette University; M.S., University of Arkansas; Ph.D., University of Wisconsin.
- THOMAS H. SANFORD
Assistant Professor of Military Science, 1964.
 B.A., Idaho State College; Captain, Military Police Corps, U.S. Army.
- THOMAS F. SHERMAN 305 S. Mills Ave.
Visiting Assistant Professor of Zoology, 1962.
 B.A., Oberlin College; D.Phil., University of Oxford.
- HELEN M. SMITH 120 W. Bonita
Assistant Professor of Music and Music Librarian, 1954.
 B.A., Pomona College; graduate study, Columbia University; Ph.D., Indiana University.
- STEPHEN G. TELLMAN 131 W. Eighth St.
Assistant Professor of Mathematics, 1961.
 B.A., Reed College; Ph.D., University of Washington.
- LAURENCE G. THOMPSON 473 Converse Ave.
Visiting Assistant Professor of Chinese Language and Literature, 1962.
 B.A., University of California at Los Angeles; M.A., Ph.D., Claremont Graduate School.
- VLADIMIR G. ULITIN 1440 E. Cossacks Pl., Glendora
Assistant Professor of Russian, 1960.
 Student at Robert College, Istanbul, and at the University of Belgrade.
- ROBERT T. VOELKEL 161 W. Sixth St.
Assistant Professor of Religion on the Nancy M. Lyon Fund, 1962.
 B.A., College of Wooster; B.D., Th.D., Union Theological Seminary.
- MARTIN L. WINE 453 Stanford Dr.
Assistant Professor of English, 1960.
 B.A., Northwestern University; M.A., Ph.D., Harvard University.

- PAUL B. YALE 239 W. Eleventh St.
Assistant Professor of Mathematics, 1961.
 B.A., University of California, Berkeley; M.A., Ph.D., Harvard University.
- DONALD H. ZENGER 167 Villanova Dr.
Assistant Professor of Geology, 1962.
 B.S., Union College; M.A., Dartmouth College; Ph.D., Cornell University.

INSTRUCTORS

- MICHAEL H. ARMACOST 255 W. Seventh St.
Instructor in Government, 1962.
 B.A., Carleton College; M.A., doctoral candidate, Columbia University.
- ANNE H. BAGES 120 E. Eleventh St.
Instructor in Physical Education for Women, 1959.
 B.S., University of Illinois; M.S. candidate, University of California at Los Angeles.
- CHRISTOPHER F. CARROLL 149 E. Eighth St.
Instructor in English, 1962.
 B.A., doctoral candidate, Yale University.
- VIRGINIA CROSBY 14702 Sugar Gum Rd., La Puente
Instructor in Romance Languages, 1963.
 B.A., Whittier College; M.A., Claremont Graduate School.
- STEPHEN A. ERICKSON
Instructor in Philosophy, 1964.
 B.A., St. Olaf College; M.A., Ph.D., Yale University.
- WANDA GAE HENRY 266 Monroe Ave., Pomona
Instructor in German, 1961.
 B.A., University of Oregon; M.A., University of Washington.
- JEANNETTE HYPES 706 Turning Bend Dr.
Instructor in Physical Education for Women, 1957.
 B.A., Bowling Green State University; M.A. candidate, Claremont Graduate School.
- ANNE-MARIE B. LASOCKI 1944 Indian Hill Blvd.
Instructor in Romance Languages, 1963.
 Master of Law, Universite d'Aix-en-Provence.
- JAMES R. LEVY Norton Hall
Instructor in History, 1963.
 B.A., M.A., Columbia University; doctoral candidate, University of Pennsylvania.
- S. DEAN MCBRIDE, JR.
Instructor in Religion, 1964.
 B.A., Pomona College; S.T.B., Harvard Divinity School; doctoral candidate, Harvard University.
- J. MICHAEL MILLER 1230 Yale Ave.
Instructor in English and Director of the Theatre, 1963.
 B.A., Wesleyan University; M.A., Ph.D., Tulane University.
- SPENCER C. OLIN
Instructor in History, 1964.
 B.A., Pomona College; M.A. and doctoral candidate, Claremont Graduate School.

The Faculty

19

HANS C. PALMER

Clark Hall

Instructor in Economics, 1962.

B.A., M.A., doctoral candidate, University of California, Berkeley.

CHARLES H. PLATT

Instructor in Physical Education for Men, 1964.

B.A. and M.A. candidate, Long Beach State College.

WILLIAM M. REESKE

1096 N. Harvard Ave.

Instructor in Physical Education for Men, 1961.

B.A., M.A. candidate, Los Angeles State College.

JOSEPH V. RICAPITO

119 N. College Ave.

Instructor in Romance Languages, 1962.

B.A., Brooklyn College; M.A., State University of Iowa; doctoral candidate, University of California at Los Angeles.

MIKE RISKAS

234 Cucamonga Ave.

Instructor in Physical Education for Men, 1961.

B.S., M.A. candidate, University of California at Los Angeles.

JOHN S. RITTER

648 N. Indian Hill Blvd.

Instructor in Music, 1963.

B.Mus., The Curtis Institute of Music, Philadelphia; M.Mus., Northwestern University; graduate study, University of Southern California.

LOIS A. TIDGWELL

430 Elder Drive

Instructor in Physical Education for Women, 1962.

B.A., Pomona College; M.S., Indiana University.

PART-TIME FACULTY

ROGER FOLSOM

944 N. Vine No. 5, Ontario

Economics

B.A., Stanford University; doctoral candidate, Claremont Graduate School.

CALVIN J. FREDERICK

Psychology

B.A., University of Oklahoma; M.A., Ph.D., University of California at Los Angeles.

LEWIS L. GRIMM

226 W. Bonnie Brae Court, Ontario

Graphic Science

B.S., California Institute of Technology; M.A., Claremont Graduate School.

FRANK JEWETT

Economics

B.A., Humboldt State College; doctoral candidate, Claremont Graduate School.

CLYDE SMITH

German

B.A., Pomona College; doctoral candidate, University of California at Los Angeles.

MUSIC

JOSE BARROSO

315 N. Cordova St., Burbank

Guitar

Conservatorio Nacional, Mexico.

KALMAN BLOCH

3914 Franklin Ave., Los Angeles

Clarinet

First Clarinetist, Los Angeles Philharmonic Orchestra.

- THELMA NEFT GELLER 822 Miramar
Oboe
 Graduate, Curtis Institute of Music; formerly Oboist with the Pittsburgh Symphony Orchestra.
- PAUL GREGORY 2827 Piedmont Blvd., Ventura
String Bass
 Member of Fox and Warner Brothers studio orchestras. Formerly of Los Angeles Philharmonic Orchestra.
- MARGOT JEAN 272 S. Almont, Beverly Hills
Violoncello
 Pupil of Jacob at the Royal Conservatoire in Brussels.
- RALPH W. PIERCE 531 E. Granada Ct., Ontario
Piano
 Student of Ethel Leginska.
- RALPH S. PYLE 1450 Casa Grande, Pasadena
French Horn
 B.A., M.A., New York University; French Horn, Los Angeles Philharmonic Orchestra.
- HARLEY A. REIFSNYDER 1247 N. College Ave.
Piano
 B.A., Pomona College; M.M., University of Portland; Prix de Virtuosité, Conservatoire de Lausanne.
- DOROTHY REMSEN 6331 Quebec Dr., Hollywood
Harp
 Harpist, Los Angeles Philharmonic Orchestra.
- ROGER STEVENS 1677 E. Mountain St., Pasadena
Flute
 Flutist, Los Angeles Philharmonic Orchestra.
- GEORGE H. TYLER 140 E. Twelfth St.
Brass Instruments
 Formerly first trumpet with Los Angeles Philharmonic Orchestra.

MEMBERS OF THE FACULTY OF THE CLAREMONT
 GRADUATE SCHOOL AND UNIVERSITY CENTER
 OFFERING COURSES AT POMONA COLLEGE

- DOUGLASS G. ADAIR, *Professor of American History*
 Ph.D., Yale University
- GEORGE S. BLAIR, *Associate Professor of Government*
 Ph.D., Northwestern University
- CHARLES S. CAMPBELL, JR., *Professor of History*
 Ph.D., Yale University
- SHERWIN CARLQUIST, *Associate Professor of Botany*
 Ph.D., University of California
- WILLIAM R. FIELDER, *Associate Professor of Education*
 Ed.D., Stanford University
- JOSEPH B. GOULD, JR., *Assistant Professor of Philosophy*
 Ph.D., Johns Hopkins University

JOHN A. HUTCHISON, *Danforth Professor of Philosophy of Religion*
B.D., Union Theological Seminary; Ph.D., Columbia University

ARTHUR R. KING, JR., *Associate Professor of Education*
Ed.D., Stanford University

E. JOHN LEMMON, *Associate Professor of Philosophy*
M.A., Oxford University

FRED WARNER NEAL, *Professor of International Relations and Government*
Ph.D., University of Michigan

WILLIAM J. NIVEN, JR., *Associate Professor of History*
Ph.D., Columbia University

STUART OSKAMP, *Assistant Professor of Psychology*
Ph.D., Stanford University

PAUL E. SULTAN, *Professor of Economics*
Ph.D., Cornell University

FATHER ELEUTHERIUS WINANCE, *Visiting Professor of Philosophy*
Ph.D., University of Louvain

¹ Absent on leave, first semester, 1964-65.

² Absent on leave, second semester, 1964-65.

³ Absent on leave, 1964-65.



Commencement 1964: President E. Wilson Lyon; Mr. Paul Fussell,
President of the Board of Trustees; and Mr. Fulton Freeman, '37,
United States Ambassador to Mexico

FACULTY COMMITTEES 1964-65

First person named is the Committee Chairman

Administration — President, Dean of the Faculty, Beckner, Mrs. Davies (1st sem.), Hansch, Jordan (2nd sem.), Phillips, Sanders, Vieg.

Admissions — Wheaton (chrmn., 1st sem.), Douglass, Fryer, Holmes, Nicholl, Sanders, Herbert Smith (chrmn. 2nd sem.), and two students.

Athletics:

Faculty Committee — Fryer, Armacost, Holmes, Malan, Rostvold, Zenger.

Advisory Council to the Director — Malan, Beatty, Voelkel, three students and two alumni representatives.

Representatives on the Southern California Intercollegiate Athletic Conference — Malan, Fryer, Rostvold.

Classification — Strathmann, Allen, Armstrong, Briggs, Brueckner, Cooke, Learnihan, Pinney.

College Radio Station — McDonald, Blanchard, Fiske, Sanders, Sweeney, Yale, and student representatives.

Courses of Study — Strathmann, Fowler, Frazer, Kohn, McDonald, Rostvold, Nelson Smith, Walton.

Financial Aid for Students — Herbert Smith, Ambord, Loucks, MacMillen, Sanders, Scaff, Walton.

Honors — Sontag, Harry Carroll, Kemble, McDonald, MacMillen, Jack Miller, Pronko, Wine.

International Relations — Meyer, Armacost, Douglass, Levy, Lindberg, Scaff, Thompson, Vieg.

Library — McIntyre, Cooke, David W. Davies, Kohn, Meyer, Mulhauser, Rostvold, Young.

Medical Sciences — Ryerson, Andrus, Beatty, Beilby (on leave), Chapman, Hansch, Tolsted.

Pre-Law — Cook, Bracher, Flournoy, Kemble.

Preparation for Teaching — Sanders, Faust, Meyer.

Public Events — Vieg, Bell, Bracher, Cikovsky, Leslie, Jack Miller, Michael Miller, Ricapito, Russell, Voelkel, and two students.

Religious Activities — Voelkel, Hamilton, Loucks, Palmer, Scaff, Ulitin, Walton, and three students.

Student Advising — Beatty, Armstrong, Batchelder, Harry Carroll, Faust, Nider, Sanders, Helen Smith, Wine, and four students.

Student Affairs — Sanders, Andrus, Beatty, Christopher Carroll, Mrs. Davies, Herman, Ogier, Walton.

Study Abroad — Walton, Armacost, Baumann, Jones, Meyer, Pronko, Sanders, Weismiller, Wheaton.

Adviser to Foreign Students — Beatty.

Adviser on Graduate Scholarships and Fellowships — Bracher.

Adviser on Forensic Activities — Palmer.





Entrance to Harwood Court, residence hall for women



Stover Memorial Walk

The College

POMONA COLLEGE is an independent, coeducational institution of arts and sciences. Enrollment is restricted to a maximum of 1100 students, of whom 625 are men and 475 women. The student body in 1963-64 included representatives from forty-two states and twenty-three foreign countries. The ratio of teaching faculty to students is approximately one to ten.

The College was incorporated on October 14, 1887, by a group of early settlers who wanted to see in Southern California a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California. The original trustees were: Henry K. W. Bent, Nathan W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charles B. Sheldon, Charles B. Sumner, and Andrew J. Wells.

Instruction was begun in September, 1888, in a small rented house in the city of Pomona. The following January an unfinished hotel (now Sumner Hall) in nearby Claremont, together with considerable land adjacent, was given to the College and the work was transferred there. Although this location was originally regarded as temporary, Claremont became the permanent home of the College. However, the name of "Pomona College" had become so definitely fixed to the institution that it was retained.

The College met a need for higher education in Southern California, and after the initial years its growth was constant. The first class was graduated in 1894. The first chapter of Phi Beta Kappa in Southern California, and the third in the entire state, was established at Pomona in 1914.

With the freedom characteristic of Congregational organization, Pomona was soon entrusted with its own government and in 1903 was freed from any organic association with the church of its origin. Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control, but pledged under its charter to maintain the institution as truly Christian, though nonsectarian.

The courses of study include a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of man and the universe in which he lives, rather than technical training in highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires to educate men and women for leadership in the professions, in business, and in civic affairs.

Pomona is an academic community in which faculty and students meet easily and frequently and students live, eat, and work together on the campus. To this end, the College maintains a large faculty in relation to its student body and provides beautiful and commodious residences and dining halls. The residential organization of undergraduate life at Pomona is one of the most important features of the total educational program.

The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial stability of the college. The book value of Pomona's total assets in May, 1964, was over \$45,000,000, of which \$14,266,000 is in Plant, \$14,728,000 in Annuity and Life Income contracts on which income is paid to donors during their lifetime, and \$13,600,000 in Endowment, the income from which is available for the current educational program of the College.

Because of these benefactions and current gifts by alumni, parents, friends, and business corporations, the charge for tuition and fees covers only about fifty-three per cent of the actual cost of a Pomona education. The College welcomes the assistance of parents who feel able to pay the full cost of their children's education, or a larger proportion than is covered by present charges. The Parents Fund, which from time to time invites contributions, provides a channel for such assistance, as does the Alumni Fund, for parents who themselves attended Pomona College.

ENDOWED PROFESSORSHIPS

From its earliest years Pomona has received endowment gifts for professorships in designated fields. Today the income from each of these funds pays a significant portion of the salary of the professor who holds the chair, and the most recent gifts are sufficient to defray the full salaries of the recipients.

The College is deeply grateful to the generous benefactors who have made these permanent contributions to its academic advancement.

The first endowment given to Pomona College was the Nancy M. Lyon Professorship in Biblical History and Literature, which was established by Nancy M. Lyon, of Munson, Massachusetts, as a professorship to be held by Charles Burt Sumner, a leader in founding the College.

The Joseph N. Fiske Professorship in Mathematics was established in 1903 by Charlotte M. Fiske in honor of her husband.

The Stedman-Sumner Professorship in Economics was established by Charles Burt Sumner and endowed over the years by his son, George S.

Sumner, Professor of Economics from 1897 to 1922, and Controller of the College from 1922 to 1941.

The Frank P. Brackett Professorship in Astronomy, which honors Pomona's original faculty member in this field, was established by a large number of alumni as a part of the 1914 campaign.

The Henry Kirke White Bent Professorship in Botany was established by Mrs. Willard George Halstead in memory of her father, a founding trustee of the College. Mrs. Halstead also established in 1915 a professorship in Zoology, named in honor of her husband.

The John Knox McLean Professorship in Religion was established by friends in honor of John Knox McLean, a founder of the College and a member of the first Board of Trustees. The fund has been generously augmented by his daughter, Mary McLean Olney, Dean of Women at Pomona in 1898-99, and an Honorary Trustee.

The Edwin Clarence Norton Professorship in Classics was established in 1910 by Mr. and Mrs. Charles M. Pratt, of New York, in honor of Edwin C. Norton, the first Dean of Pomona College.

The Martha N. Hathaway fund for the Chair of Dean of Women was established in 1914 by gifts of Miss Martha N. Hathaway.

The Warren Finney Day Professorship in History, named in honor of the Minister of the First Congregational Church of Los Angeles, was endowed in 1914 by the son and parishioners of the Reverend Warren Finney Day.

The Carnegie Professorship in Chemistry was established in 1920 by a gift from the Carnegie Corporation of New York.

The Phebe Estelle Spalding Professorship in English was endowed by a small group of students, led by Miss Alice Parker of the Class of '01, in honor of Phebe Estelle Spalding, beloved Professor of English Literature at Pomona from 1889 to 1928.

The Robert C. Denison Professorship in Philosophy was established in 1924 by William A. Watts, of New Haven, Connecticut, in honor of Robert C. Denison, Professor of Philosophy at Pomona from 1920 to 1936.

The Seeley W. Mudd Professorship in Physics was endowed in 1925 by Col. Seeley W. Mudd, trustee of Pomona from 1914 to 1926, and a founder of the plan for The Claremont Colleges.

The Henry Snyder Professorship in Sociology was established in 1937 by bequest of Mr. Henry Snyder of Los Angeles.

The David J. Baldwin Professorship in Music was established in 1958 by Mrs. Myrna B. Freman, in memory of her father.

The William A. Johnson Memorial Professorship for a visiting professor in government was established in 1959 by friends of the late Mr. Johnson, a trustee of Pomona, 1949 to 1956.

The Arthur M. Dole and Fanny M. Dole Professorship in English, a fully endowed chair, was established in 1962 through the bequests of Arthur M. Dole, '96, trustee from 1908 to 1955, and Mrs. Dole.

THE CLAREMONT COLLEGES

Pomona College is the original institution of The Claremont Colleges, a group of six affiliated colleges, of which the other members are Claremont Graduate School and University Center, Scripps College, Claremont Men's College, Harvey Mudd College, and the newly incorporated Pitzer College. Each college serves its own distinctive purposes, determines its own policies and requirements, possesses legal autonomy, and has its independent board of trustees and faculty. However, the six institutions cooperate in their academic programs and in the use of certain common facilities. The undergraduate colleges open their classes without tuition charges to students in the other undergraduate institutions. Selected courses in the Claremont Graduate School are open to Seniors in the undergraduate colleges. The combined resources of the libraries, the college church, the well-equipped medical dispensary and infirmary, the central business office, and the technical services are available to all the colleges.

The group, which represents a combination of English and American practices, arose from the desire of Pomona College to maintain for itself the advantages of a small college and at the same time to provide at Claremont an educational opportunity for the increasing numbers of young men and women who were seeking admission to the College at the end of World War I.

Under the leadership of the Pomona trustees, the institution now incorporated as Claremont Graduate School and University Center was established on October 14, 1925, as the first step in the inauguration of the new plan. It assumed the responsibilities of a central coordinating agency, the direction of graduate instruction for The Claremont Colleges, and the founding of new institutions, as they might be required. In addition to its own appointees, the faculty of the Claremont Graduate School also includes most members of the faculties of the undergraduate colleges.

An early objective of the group plan was the establishment of a college for women. Scripps College, incorporated in 1926, and named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for 400 women. From the beginning, the main feature of its curriculum has been a unified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, was established in 1946 as a liberal arts college educating men for management

and the professions. The enrollment is restricted to a maximum of 600 students.

Harvey Mudd College, named in memory of the President of the Board of Fellows of Claremont Graduate School and University Center, was incorporated as the fourth undergraduate college in 1956. The college offers a program in basic science and engineering for approximately 300 students.

Pitzer College, a college for women, emphasizing the Social Sciences, established in 1963 through the generosity of Russell K. Pitzer, a Pomona alumnus of the class of 1900, will receive its initial Freshman class of 100 students in September, 1964.

The joint services of The Claremont Colleges are administered by a committee of the Presidents, who in rotation serve annual terms as chairman of the committee and also Provost of The Claremont Colleges. The President of Claremont Men's College will serve as Provost for 1964-65.

The combined Boards of Trustees of the colleges constitute the Board of Overseers, an advisory body which meets at least annually to consider the operation of the group as a whole. Printed copies of the Articles of Affiliation of The Claremont Colleges may be obtained through the office of the president of any of the institutions.

LOCATION

Pomona College is exceptionally fortunate in its location and its surroundings. The city of Claremont, which has grown up around Pomona and The Claremont Colleges, is an academic, residential community of distinction. Although Claremont is a quiet college town of some 18,000, it is but thirty-five miles from the center of Los Angeles by the San Bernardino Freeway, on which there is convenient bus service.

Transcontinental rail service for Claremont is provided by the Santa Fe, the Union Pacific, and the Southern Pacific Railways. Stations for all three lines are in Pomona, a city of over 77,000, only four miles away.

The College is easily accessible by air. Two airlines operate flights from Ontario International Airport, only seven miles from the college campus. There are frequent helicopter and bus services from the Pomona Valley to the Los Angeles International Airport, some 50 miles away.

The Campus

POMONA COLLEGE has a campus of great beauty and one of the most modern and best equipped physical plants in the United States. The College occupies approximately one hundred and twenty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, approximately ten in Alumni Athletic Field, and fifty in the campus proper. The College centers on Marston Quadrangle, built and endowed by George W. Marston, 1850-1946, distinguished citizen of San Diego, an original trustee of Pomona and for many years President of the Board.

Other beautiful and specially landscaped areas are Memorial Court, honoring certain former members of the College, and Harwood Garden on the men's campus which honors the late Frank H. Harwood, '98, a trustee and former President of the Board. The Stover Memorial Walk, from College Avenue to College Way, honors the memory of the late Clarence T. Stover, '21, a trustee and chairman of the Buildings and Grounds Committee.

Pomona College has thirty-two buildings of its own, and also shares nine other buildings which Claremont Graduate School and University Center owns and operates for all The Claremont Colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original building of the college, was removed from its first site in 1922, remodeled for administrative and faculty uses, and named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona.

Holmes Hall, the first academic building, erected by the college in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massachusetts. Reconstructed in 1916, it is now devoted to recitation rooms, departmental offices, and an auditorium seating 750. A small addition for a Drama Workshop was built in 1957.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which served as the College Library from its construction in 1908 to June, 1952, was remodeled in 1952, for use as a classroom and office building for the Social Sciences.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons in 1898, and for many years the home of the Departments of Physics and Mathematics, was renovated and reorganized during the summer of 1958 as a classroom and office building for non-laboratory departments.

The Claremont Colleges maintain a joint Business Office in the new Pendleton Business Building, constructed in 1959, and named in honor



Pearsons Hall, between classes



Frank P. Brackett Observatory



The 1963 football squad and coaches

of Mr. and Mrs. Morris B. Pendleton, '22. The colleges are served by a central heating plant, and by a common shops and maintenance department.

ART, MUSIC, AND DRAMA BUILDINGS

Rembrandt Hall, built in 1914 and enlarged in 1937, is the original art building of the College. Since 1958-59, it has been devoted primarily to studio purposes.

The Gladys Montgomery Art Center, named for Mrs. Victor Montgomery, which was opened in September, 1958, amplified our art facilities by providing sculpture studios, a lecture hall, exhibition galleries, and departmental offices.

Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs. Appleton S. Bridges of San Diego in 1915, in memory of their daughter who died while a student at Pomona College, offers excellent facilities for the study of music. It contains, in addition to private studios, an unusually beautiful auditorium seating 700.

Mabel Shaw Bridges Auditorium, also the gift of Mr. and Mrs. Appleton S. Bridges in memory of their daughter, was constructed in 1931. It has a seating capacity of 2600, and is held and administered by Claremont Graduate School and University Center on behalf of The Claremont Colleges.

The Garrison Theatre, erected through the generosity of Mr. and Mrs. Robert H. Garrison and other donors, provides a center for dramatic productions by and for all The Claremont Colleges. It was placed in use in the late autumn of 1963.

The Greek Theatre, an open-air amphitheatre located in Blanchard Park, was built in 1910 and extensively reconstructed in 1960-61.

SCIENCE BUILDINGS

Dr. Frank R. Seaver, '05, has made possible at Pomona the construction of three magnificent new science buildings.

Robert A. Millikan Laboratory, the physics-mathematics-astronomy building, which was placed in use in September, 1958, provides unexcelled facilities and equipment for instruction in these departments.

Seaver Laboratory, the biology-geology building, which was opened in September, 1959, has the finest and most modern equipment for work in these fields.

A new Seaver Laboratory for chemistry will be completed in November, 1964. It will be one of the most advanced laboratories for under-

graduate study ever constructed in the United States, and will include an IBM/360 computer.

Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, has served the Department of Astronomy since 1908. A second building in the Observatory area, the gift of Mr. Frank R. Seaver, '05, was constructed in 1950. The dome houses the Clara Whitney Shatto Reflector Telescope, and the main floor contains classrooms and a library.

Mason Hall of Chemistry, the gift of Mr. W. S. Mason, in 1922, will be converted for the use of other departments when the chemistry department moves to the new laboratory in 1964.

Crookshank Hall, given in 1922 by Dr. D. C. Crookshank, is occupied by the Departments of Botany and Psychology.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contains lecture rooms and laboratories for the Department of Psychology.

HONNOLD LIBRARY

The Honnold Library, which was given by Mr. and Mrs. William L. Honnold to Claremont Graduate School and University Center for The Claremont Colleges, since 1952 has housed the Pomona College Library along with the libraries of Claremont Men's College, the Claremont Graduate School, a part of the Scripps College Library, since 1956 the library of Harvey Mudd College and since 1963 the library of Pitzer College. For information on the resources of the Honnold Library see page 66.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The War Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the building includes an excellent basketball court with seats for 1200 spectators, a classroom, a memorial library, staff offices, and commodious shower and locker rooms.

The Memorial Training Quarters, constructed in 1922 as a memorial to the men of Pomona College who lost their lives in World War I, has been incorporated as the east wing of the new Memorial Gymnasium. It represents the gift of the parents of one of these men, Sheldon Gerry, '17, supplemented by the gifts of alumni, students, and friends.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and foot-

ball fields, a hockey field, and basketball courts are within the limits of the campus. A ticket booth, wall, and gate for Alumni Field were built in the autumn of 1950, as a gift of the class of 1916.

Athearn Field, given in memory of the late Fred G. Athearn, of the class of 1900, by a group of his business friends, and constructed in 1957-58 on land east of Clark Hall, provides touch football and softball fields, and other recreational facilities for the men's campus.

Two swimming pools are available for instruction and recreation throughout the year. In connection with the Memorial Gymnasium there is a pool for men, of standard size for water polo. An Olympic size pool for the women's athletic area was built in 1962, through the generosity of Mr. and Mrs. Morris B. Pendleton of the class of 1922.

The women's athletic area, which lies immediately south of the women's residence halls, was greatly extended in 1962 with the gift of a new field by the Women's Campus Club, and improved in 1964 through gifts from Mr. and Mrs. Pendleton.

The William Renwick Gymnasium, named in memory of an early donor to the college, was first erected as a military barracks in World War I. It provides general facilities for the women's department of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendale, California, was opened for use in 1953. Its rooms, grouped around three courtyards, accommodate 108 men. Walker Hall also includes a lounge and reception room for the entire men's campus.

Albert K. Smiley Hall, the first residence hall for men, built in 1908, and thoroughly renovated during the summer of 1957, accommodates sixty-nine students.

The Eli P. Clark unit, erected in 1929, includes three residence halls with accommodations for 286 students, and is a memorial to the late Vice-President of the Board of Trustees.

Edwin C. Norton Hall, constructed in 1956 and named in memory of the late first faculty member and first Dean at Pomona, contains thirty-six single rooms.

Lucien H. Frary Dining Hall for Men, given by Mr. George W. Marston in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 1892 to 1903, seats 375 in the main hall and includes three smaller dining rooms for special uses.

The men's campus is embellished by notable works of art. Frary Hall is the site of two famous murals: "Prometheus," by Jose Clemente Orozco,

painted in 1930, and "Genesis," by Rico Lebrun, painted in 1960. The Smith Memorial Tower, completed in 1961, honors its donors, the late Mr. and Mrs. Edwin L. Smith.

RESIDENCE AND DINING HALLS FOR WOMEN

Harwood Court, constructed in 1921 and named in memory of Mrs. Charles E. Harwood, and including Strong Hall, accommodates 140 women.

Florence Carrier Blaisdell Hall, erected in 1936 and named in honor of Mrs. James A. Blaisdell, wife of the fourth President of the College, houses 95 women.

Della Mulock Mudd Hall, which honors the wife of the late Seeley W. Mudd, a Trustee of Pomona, was completed in the spring of 1947. The building has accommodations for 100 women, most of them in single rooms.

Anna May Wig Hall, named in memory of the late Mrs. R. J. Wig, was placed in use in September, 1959. It has accommodations for 98 women.

The College also maintains two smaller residences for women, one of which is used as the Maison Française for students majoring in French, and one as the Deutsches Haus for students majoring in German.

Beautiful and commodious dining facilities are available for all women students. Residents of Harwood Court and Anna May Wig Hall are served by the Aurelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, which has accommodations for 120 students, also serves many special college purposes and occasions.

Gibson Dining Hall, built in 1949, honors the late Jessie E. Gibson, former Dean of Women. It serves the students living in Blaisdell Hall and Mudd Hall.

EDMUNDS UNION

The Charles K. Edmunds and Katharine P. Edmunds Student Union, which honors the late fifth President of the College and his wife, provides a social center for all students and an attractive ballroom in which formal dances are held. This building, made possible by the gifts of many parents, supplemented by funds from the Associated Students and the bequest of the late Florence Riley, was built in 1937 and houses student offices, including publications, the manager's office, and the Cooperative Store.

The east wing of Edmunds Union, which includes the fountain and restaurant facilities and a full basement for recreational use, was completed in January, 1951, as a gift of the Associated Students.

HEALTH FACILITIES

Excellent buildings and facilities for the health of students are held by Claremont Graduate School and University Center for all The Claremont Colleges.

Memorial Infirmary, given in 1931 in memory of Colonel Seeley W. Mudd, has twenty-seven beds. It is located on Amherst Avenue, north of Foothill Boulevard.

Baxter Medical Building, the gift of Dr. and Mrs. George E. Baxter, provides offices where the College Physicians and nurses are available for consultation and treatment of minor ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gift of Dr. D. K. Pearsons. It was constructed in 1900, and has been the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the College first opened in September, 1888, was erected on the campus in 1937 through the generosity of an anonymous donor.

The beautiful Bosbyshell Fountain in the courtyard of the men's campus commemorates the gift to the College of a deep well independent water supply by Edward P. and Mary G. Bosbyshell.

THE FACULTY HOUSE

Pomona shares with the other Claremont Colleges the beautiful Faculty House which the late Harvey S. Mudd and Mrs. Mudd and the Seeley W. Mudd Foundation gave to Claremont Graduate School and University Center for the use of the faculties of all the colleges at Claremont. Situated just south of the Honnold Library, the Faculty House provides an ideal meeting and recreational center for faculty groups.

CENTER FOR RELIGIOUS ACTIVITIES

The McAlister Center for Religious Activities, placed in use in September, 1959, is the administrative home of the College Church, and the center for religious activities in The Claremont Colleges. The building

was made possible by a gift from the estate of the late Mrs. Amelia McAlister Upshur of San Marino, California, and by contributions from each of The Claremont Colleges.

RANCHO SANTA ANA BOTANIC GARDEN

The Rancho Santa Ana Botanic Garden, affiliated with Pomona College and the Claremont Graduate School, is an independent, endowed institution devoted to the preservation of native California flora and to research and teaching in the fields of botany and horticulture. The Pomona herbarium and part of the Pomona botanical library are housed at the Garden. The beautifully landscaped grounds of the garden are open to visitors throughout the year.

THE CLAREMONT INN

The Claremont Inn, beautifully situated on College Avenue opposite the campus since 1906, is the guest house of the colleges and community. The Inn is owned and operated by Pomona College. Parents and friends are invited to use the facilities of the Inn during visits to Claremont. Public and private dining rooms and room accommodations for sixty guests are available.



Pomona College students and citizens of Claremont annually raise money to send a group to Crossroads Africa projects in the sub-Sahara.
Five 1964 participants locate their African homes.

Admission

THE COLLEGE SEEKS students of superior academic promise, high standards of personal conduct, and sufficient stability and self-discipline to carry on their education without the necessity of excessive supervision and direction.

Students are admitted to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to carry successfully the academic program offered here, and will actually use them to that end; (2) the College, with its program and traditions, and the applicant, with his capacities, interests and needs, are mutually well suited to each other.

It is not possible to state a minimum record which will insure admission as the College has many more qualified applicants than available space. In the selection of students academic achievement and promise are primary factors but the Committee makes every effort to take into account character and special aptitudes and skills. The final decision is based on the judgment of the applicant as a person rather than on narrowly technical requirements.

Students are not considered to be officially matriculated in the College until they have completed satisfactorily one semester in full-time attendance. (See page 89.)

Any person interested in preparing for Pomona or any school official who is responsible for directing the preparatory programs of students is invited to call on the Director of Admissions at any time regarding the acceptability of candidates or for advice on specific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary school courses but assumes candidates will have taken a college preparatory course. Under normal circumstances this is assumed to mean four or five academic subjects each year and particularly during the eleventh and twelfth grades. Three years of mathematics are now advised for all students and four for students who expect to continue in mathematics or physical sciences. There is no absolute requirement for credit in a foreign language for entrance, but in most fields of concentration a reading knowledge of at least one foreign language is essential. One method of meeting the language requirement for graduation is a score of 560 or higher on a College Entrance Examination Board Achievement test. (See pages 84-85 for further information.) Few students make a satisfactory score with fewer than three years of language study in secondary

school. Four years of English and two or three years in sciences and in the social sciences are advised. The Committee considers the quality of the record more important than the exact arrangement of subjects.

It is normally assumed that candidates will have received a high school diploma. Students from foreign countries or those who are following unusual patterns of preparation may submit other evidences of their readiness to undertake college work.

All candidates are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board. (See pages 43-44 for further information.) This requirement does not lessen the importance of the school record and the personal ratings. A personal interview is not required unless requested by the Committee.

It is recommended that applications be filed at the beginning of the Senior year in high school. The Scholastic Aptitude Test should be taken no later than January of the Senior year, and the candidate is responsible for registering for this with the College Board.

The final date for accepting applications for admission to Freshman standing in September, 1965, is March 1. All applicants are urged to file applications early in the Senior year and thus allow time to secure additional information when this is desirable. Applications are withdrawn unless the specified information is received by March 15.

ADVANCED PLACEMENT

Students who are eligible for honors or advanced placement sections in their schools are advised to register for them when available.

Students who request college credit for honors courses taken in high school are required to submit scores on the Advanced Placement Tests given by the College Board. The decision as to whether or not credit will be allowed will be made by the Classification Committee and reported at the time of registration.

EARLY DECISION PLAN

The Early Decision Plan is offered to students for whom Pomona is clearly the first choice college and who definitely intend to accept if offered admission. It is assumed that Early Decision candidates will not file other applications early in the fall except for reasons of insurance, and will then withdraw these if offered admission to Pomona. Students who are uncertain of their first choice college should not apply for Early Decision but should apply for consideration on the regular schedule which calls for a March 1 deadline.

If an Early Decision application is completed by November 15, including: (1) transcript of record through the sixth semester (11th

grade), (2) CEEB SAT scores for the preceding March, May or August, (3) personal ratings, (4) candidate's personal statement, the Committee will report by December 15 its decision on the application by rating students as follows:

- A. Admission will be offered provided the record continues to be of the same general quality.
- B. The record meets minimum requirements for admission and suggests adequate ability and preparation to do the work required. A decision cannot be reached until all applications can be considered in the spring.
- C. Admission is doubtful. A stronger record for the seventh semester, or improved College Board scores might change the probabilities, but it is prudent to assume that admission will not be offered.

The purpose is to make it unnecessary for students for whom Pomona is the first choice, and who receive an "A" rating, to apply elsewhere.

The Committee prefers to withhold decisions on applications received or completed after December 1 until the results from the December or January Scholastic Aptitude Test and the seventh semester transcript can be filed. Normally it does not attempt to give preliminary ratings on applications completed after December 1, but considers them at the regular selection of students made early in April.

In all cases admission is granted subject to evidence of satisfactory health on the part of the candidate.

ADMISSION TO ADVANCED STANDING

The final date for accepting applications for admission to advanced standing is May 1 for entrance in September, and December 1 for entrance in February.

In considering applications for advanced standing the College follows the general policy used for Freshman candidates. It requires an official transcript, or transcripts, of all college work for which the applicant has been previously registered. These transcripts must show the detailed record in all secondary as well as all collegiate institutions attended. The College further requires honorable dismissal from the previously attended institution together with recommendations from the proper college officials. In addition all candidates are required to submit scores on the Scholastic Aptitude Test given by the College Entrance Examination Board. It is not necessary to repeat the test if it was taken during the Senior year in secondary school.

Credit allowed for work taken in other institutions will be determined by the Classification Committee after the candidate has been accepted.

ADMISSION TO SPECIAL CLASSIFICATION

Mature students, particularly those equipped for advanced studies, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. Special students are not candidates for a degree, though students admitted to this classification may be accepted later as candidates for a degree.

APPLICATION PROCEDURE

Application for admission to Pomona College must be made on the form furnished by the College and all credentials must be filed with the Director of Admissions. The forms and credentials required are:

1. *Application Form I*, including \$20.00 fee. This fee is not refundable as it is charged to cover a portion of the cost of processing applications.
2. *Two Personal Ratings on Form II*. A confidential report by the principal or counselor and another from a classroom teacher to be sent directly to the Committee on Admissions.
3. *Personal Statement*: A personal separately-written statement is required to supplement the other information. Some or all of the following points may be discussed, although the candidate is encouraged to choose whatever content or method he wishes: (a) your educational plans and ambitions for the next four years and beyond, plus the events, ideas, and forces influencing these plans; (b) an elaboration of your major interests and aptitudes (academic and non-academic), discussing how these relate to your ideals and values; (c) any information *not covered* elsewhere in the application which you believe should be known by a group of persons making a final judgment of your potential success in all areas of college life.

If Pomona is clearly your first-choice college, please give in your statement your reasons for choosing it. This item may be omitted *without penalty*, as it is used to assist in estimating the number who will accept admission, but is definitely *not* a factor in the committee's decision.

A typed letter not exceeding 1000 words is suggested, and may be as brief as the candidate wishes in saying what he feels needs to be said. No printed form is provided.

4. *Official Transcript* of high school record to date. At the time of selection of candidates, work in progress will be considered in fulfillment of requirements, and admission will be granted subject to the filing of a final transcript showing the satisfactory completion of all secondary school work. The transcript form ordinarily used by the school is satisfactory. It should include an interpretation of the grading system. It should not be sent until the first half of the Senior year has been completed.

5. *Medical Certificate*, signed by a licensed M.D., on a form furnished by the college after admission has been granted provisionally. The College reserves the right to reject students for health reasons.
6. *Deposit* of \$50 is due at the time admission is accepted. Failure to make this payment will result in the cancellation of admission. No refund of this deposit will be made if a student withdraws before entrance. Candidates on the alternate list for whom places are not provided will have the entire deposit refunded. This deposit is held until the student's graduation (or withdrawal from classes), at which time any outstanding bills or charges are deducted and any balance is refunded. (For further information, see page 47.)

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board and are responsible for making application to the Board. Students who plan to enter in September should take the test in December or January. Students who plan to enter in February should take it in May, August or December. Any one of these dates is satisfactory. Freshmen are not admitted in February, but there is usually space for a few transfer students in mid-year.

The College Entrance Examination Board will hold a series of examinations in 1964-65. Application to take an examination must be filed approximately four weeks in advance of the examination date. The schedule for the examinations with the dates of registration is as follows:

<i>Date of Tests</i>	<i>Regular Registration Closes</i>	<i>Late Registration Closes</i>
*Nov. 7, 1964	July 18, 1964	Aug. 1, 1964
Dec. 5, 1964	Nov. 7, 1964	Nov. 21, 1964
Jan. 9, 1965	Dec. 12, 1964	Dec. 26, 1964
March 6, 1965	Feb. 6, 1965	Feb. 20, 1965
May 1, 1965	April 3, 1965	April 17, 1965
July 10, 1965	June 12, 1965	June 26, 1965

* For California applicants only.

The above dates apply to centers on the North American Continent. Information about dates for other centers is contained in the College Board Bulletin of information. There is a penalty fee of \$3.00 for late registrants.

The Scholastic Aptitude Test will be given in California (but nowhere else) on November 7, 1964. The scores for this test may be used for Early Decision or for application on the regular schedule.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees, and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates must secure application forms from the College Entrance Examination Board and file completed forms, accompanied by the examination fee of \$4.50, at one of the offices described below. If possible, applications should be filed several weeks in advance of the closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the following western states or Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, Alberta, British Columbia, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, Box 1025, Berkeley 1, California.

All others should write to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

ACHIEVEMENT TESTS

It is strongly recommended, though not required, that candidates for admission take three Achievement Tests administered by the College Board and that one of these be the Achievement Test in English Composition. The other two are left to the candidate's choice.

Although the college *recommends* that candidates for admission for 1965 take the Achievement Tests, it contemplates *requiring* the Achievement Tests of those applying for 1966 and thereafter.

The Writing Sample is not required.

Expenses

CHARGES FOR TUITION, fees, and room and board will approximate \$2,500 for each student in 1964-65. A substantial portion of the total educational cost is borne by the College through the use of contributed funds and income from endowment.

The College reserves the right to change any of the following fees at any time should conditions make it necessary.

GENERAL FEES

TUITION, including season tickets for Artist Course and Athletic Events	per semester	\$700.00
HEALTH FEE	per semester	17.50
ASSOCIATED STUDENT DUES	per semester	15.00
GRADUATION FEE		10.00
FEES DEPOSIT (including Room Deposit below)		50.00

RESIDENCE FEES

ROOM AND BOARD	per semester	\$500.00
In Clark Hall a few rooms with fireplaces are available for men, for which the charge is \$525.00 per semester		
ROOM DEPOSIT (included in Fees Deposit above; see also pages 43 and 47.)		

DEPARTMENTAL FEES

	<i>Per Semester</i>
LABORATORY FEES	\$2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 15.00
<i>See Courses of Instruction.</i>	

APPLIED MUSIC FEES

<i>For those paying regular tuition:</i>	
One-half hour private lesson per week	45.00
Each additional half-hour	40.00
<i>For those carrying less than three courses a semester, exclusive of work in applied music:</i>	
One-half hour private lesson per week	75.00
Each additional half-hour	55.00
Class instruction	25.00

PRACTICE FEES

Practice room reserved time, one hour daily	8.00
Four manual organs (Bridges Hall and Claremont Church) one hour weekly	5.00
Two manual organs (Bridges Hall) one hour weekly	2.50

FEES FOR SPECIAL PRIVILEGES

LATE REGISTRATION (see page 89.)	\$2.00 to 10.00
CHANGE OF PROGRAM (see page 89.)	5.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (see page 73.)	5.00 to 10.00

FEES FOR PART-TIME STUDENTS

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN THREE	
COURSES IN A SEMESTER	per course \$250.00
	per half-course 125.00

AUDITOR'S FEES

FOR PERSONS OTHER THAN THOSE TAKING COURSES FOR CREDIT	
	per course 25.00

RESIDENCE FOR MEN

The College is equipped with residence and dining halls to accommodate its students. All the residence halls have both single and double rooms. It is expected that single men not actually living at home will room and dine in college halls. Admission is offered on this assumption unless an exception is made in the statement offering admission. Other exceptions to this regulation may be granted by the Dean of Men, but ordinarily only for medical reasons or for others of comparable importance. Students living at home or working for board or room may make special arrangements with the Dean of Men. Students living in residence are not permitted to maintain by rent, lease, or otherwise, rooms off campus, either individually or by groups. Students who live in approved off-campus quarters are not permitted to maintain other rooms in addition to those approved.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge on the men's campus is \$500.00 per semester, but a few rooms with fireplaces are available at \$525.00. These charges include necessary furniture, bed linen and towels, the laundering of the same and the care of rooms. Students are expected to furnish blankets, spreads for single beds, and study lamps.

The College has no housing for married students.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally assigned to Harwood Court or Anna May Wig Hall. Students living at home or working for room or board may make special arrangements with the Dean of Women.

Harwood Court, Blaisdell Hall, Anna May Wig Hall, and the two Language Houses have both single and double rooms, as well as suites.

Except for a few double rooms, single accommodations are provided in Mudd Hall. Each room is adequately furnished; the only articles to be provided by the students are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of \$500.00 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new students the Friday before the opening of the college year and for returning students the day of registration. The residence and boarding privileges end 24 hours after the last examination at the end of each semester for all students except Seniors and those asked by the college to remain through Commencement. The residence and dining halls are closed the day after Commencement.

Each student is required to make a deposit of \$50. This deposit, for those students living on campus, holds a room in the residence hall, and also, for all students, is for coverage of any miscellaneous fees and bills not paid at the time of graduation or withdrawal from the college. At that time, any outstanding charges for damage to college property, or miscellaneous unsettled bills, are deducted from the deposit. Any balance remaining is refunded after graduation, or after withdrawal from the college if sixty days notice of any withdrawal from the residence hall has been received.

If a student moves out of the residence hall without giving the required sixty days notice, the entire \$50 deposit is normally forfeited. If a student who forfeits his deposit continues in college as an off-campus student, he must make a new deposit of \$50 for coverage of miscellaneous fees and bills.

The College reserves the right to dismiss from a residence hall without rebate of room rent and to withdraw dining hall privileges in the case of any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must be paid at the time of registration. Students wishing to pay by installments may do so by arrangement with the Bursar. Two options are available.

(1) *The Twelve Monthly Payment Plan:* Students desiring to spread the cost of tuition, room, board, and the health fee over a twelve-month period may do so by arrangement with the Bursar. Payments begin with the month of June preceding the college year and end the following May 1. May 15 is the due date for the June payment. The total cost for

the 1964-65 academic year, exclusive of Student Body fee, will be \$2,435 and thus, if there is no scholarship, the amount due each month is \$202.92, plus a service charge of one dollar per month. A student may take advantage of this plan at any time by paying all installments back to June. Incoming freshman students who wish to take advantage of the twelve monthly payment plan prior to May 15 will be able to subtract from the total cost figure the amount of any assured scholarship or loan and pay one-twelfth of the remainder plus \$1.00 service charge per month. Matriculated students who will be receiving financial aid may enter the plan when assured scholarships or loans are known late in June by paying June and July installments, which have been adjusted by the amount of financial aid.

Additional fees (laboratory or other) and adjustments to actual expenses will be made on the October and March payments following registration. Students withdrawing from the plan before fall registration will receive full refund less the \$1.00 per month service charge. Information and forms may be obtained from the Bursar, College Business Office, 747 North Dartmouth Avenue, Claremont, California.

(2) *Deferred Payment of Semester Bills:* At least one-fourth of the total bill for the semester must be paid in advance or at the time of registration. Students may arrange with the Bursar at the time of registration to make deferred payments. Even though the student has a financial grant, one-fourth of the remainder of the bill must be paid. A service charge of from \$3.00 to \$6.00 per semester will be made for deferred payments according to the number of installments.

If the payments agreed to are unpaid and no arrangements have been made, they become delinquent ten days after the stated date and a penalty fee of \$10.00 will be charged automatically in order to reinstate the account. If the account is still unpaid at the end of twenty days, the student will be suspended by the appropriate college official from class attendance and from the dining halls. In the event of repeated failure to make payments on schedule, the privilege of deferred payment will be withdrawn.

No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall. The college reserves the right to use and reassign the room of a student who withdraws or goes on leave during a semester.

Students with unpaid bills are not given honorable dismissal or graduated. Seniors must settle all college bills and library obligations by four p.m. on the fourth day preceding Commencement if they are to receive their diplomas with their class.

Financial Aid

UNDER AN EXTENSIVE financial aid program approximately \$275,000 from College funds will be available for the assistance of Pomona students during 1964-65. These funds are derived from endowments, from individual and corporation gifts, and from the annual Alumni Fund. In addition, Pomona students are eligible for California State Scholarships in amounts from \$300 to \$1400 each, and 181 State Scholars were in residence during 1963-64.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equality in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honor and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded solely in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant.

Grants of financial aid are awarded to students who achieve outstanding records and who need financial assistance to attend college. In making awards, the Committee on Financial Aid considers the candidate's promise in intellectual fields, his force of character and physical vigor, his probable interest in different aspects of the college community, and his leadership qualities. These factors determine the selection of those to receive aid, but the size of the stipend will be determined entirely in accordance with need, unless otherwise indicated. Normally, one-half the annual stipend is paid at the beginning of each semester.

If a financial aid holder's record is satisfactory and need continues, aid will be continued during the student's residence in college. Each record is reviewed annually, with attention being given to the student's participation in and contribution to the college community as well as to his academic record. The amount of the stipend will be determined each year on the basis of the financial situation at that time. All Freshmen and Sophomores who are awarded financial assistance are expected to take \$100 of their computed need in the form of a loan. Juniors and Seniors are expected to take \$200 in loan form.

Entering students, either Freshmen or Junior College graduates, in need of assistance, should *complete* by March 1, 1965, an application for admission, and should submit by February 15, on forms available from high school counselors, or from the Pomona College Financial Aid Office if the schools do not have the forms, a financial statement to the College Scholarship Service. This service, established by the College Entrance Examination Board in 1954 on a nation-wide basis, collects from parents or guardians information relating to the financial resources of scholarship applicants, and sends copies to the colleges and universities to which

applicants are applying for financial grants. Students transferring from other four-year colleges are not eligible to apply for financial assistance until they have completed a minimum of two semesters in residence at Pomona College.

Financial stipends are also available to other matriculated students, and are awarded in competition, using the same procedure as for Freshmen.

Renewal forms and application materials for students not previously receiving aid are available in the Office of Financial Aid after March 1. Completed applications and renewals must be filed no later than April 15 in the same office.

FINANCIAL GRANTS AVAILABLE FOR 1964-65

ALUMNI SCHOLARSHIPS

Five or more scholarships will be awarded annually from the Alumni Scholarship Fund. These scholarships are based on financial need and are awarded not only on the basis of the academic record but also on the all around contribution to the life of the secondary school and community, and the promise of such contribution in college and afterwards. Open to men or women students.

ALPHA GAMMA SIGMA SCHOLARSHIP

One award with maximum stipend of \$1400 is given by Pomona College to a Junior College graduate who is recommended by Alpha Gamma Sigma.

APPRECIATIVE PARENTS SCHOLARSHIP

A scholarship fund of \$16,000 has been established by the parents of a recent graduate in appreciation of the work of the College. The income from the fund is to be used to assist a worthy student who could not otherwise attend Pomona.

THE MARY JANE ARMENTOR FUND

A fund of \$5,000 was established by Corrie Preston Morris, in memory of his sister, the income to be used to assist worthy and needy students.

THE ASSOCIATED MEN STUDENTS SCHOLARSHIPS

The Associated Men Students of Pomona College offer annually two awards of \$100 each. Each award is given to a man student at the end of his Junior year, one to the man who best exemplifies a combination of scholarship with leadership and proficiency in athletics, and the other to the man who best exemplifies a combination of scholarship with leadership and attainment in extracurricular activities.

THE DONALD HOUGHTON BACON SCHOLARSHIP

The parents of Donald H. Bacon, who died at the College in 1948, have established in his memory a \$5256 scholarship fund, the income from which provides an annual award to a deserving student who prepared for college at the Tucson, Arizona, High School, and who is recommended by the Superintendent of Schools in Tucson.

THE OLIVIA D. BAKER SCHOLARSHIP

The Olivia D. Baker Scholarship has been established in memory of Mrs. Olivia Dennison Baker. The scholarship is open to students of a minority race with preference given to Negro candidates. It is open either to men or women, to Freshmen or transfer students.

THE ANNE JENCKS BEACH MEMORIAL SCHOLARSHIP

A fund of \$15,133 has been established by the late William N. Beach, '01, in memory of his wife, also a graduate of the class of '01, the income from which is to be used annually to assist worthy students of good ability.

THE LLEWELLYN BIXBY MEMORIAL SCHOLARSHIP

A scholarship of \$500 available annually to a man or woman who has completed the Freshman year in Pomona College and who shows proficiency and genuine interest in science was endowed by Mrs. Llewellyn Bixby, '01, in memory of her husband.

THE HENRY C. BRAINERD AND FANNIE HOWARD BRAINERD MEMORIAL SCHOLARSHIPS

A fund of \$25,084 provides income which is available for scholarships for men or women.

THE THEODORE S. BROWN SCHOLARSHIPS

A fund of \$25,808 has been established by Mr. and Mrs. Theodore S. Brown, the income from which is available to students of good character who need financial help to remain in college.

THE J. CARLYLE BRYANT SCHOLARSHIP

A fund established by Mr. and Mrs. George W. Bryant in memory of their son, J. Carlyle Bryant, '45, is available to an outstanding, all-around man in any class at the college, who possesses qualities of character, scholarship, and athletic ability, and who is particularly interested in mathematics. The amount of the scholarship varies from \$500 to \$900, depending on the need of the recipient. If there should not be a properly qualified candidate in mathematics, the scholarship may be awarded to a student in one of the other physical sciences.

THE FRANK G. BUTLER SCHOLARSHIPS

A scholarship fund of \$81,000 has been established in memory of Frank G. Butler, the income from which is available to Sophomores, Juniors, or Seniors who have achieved scholastic distinction.

THE WINIFRED SMITH BUXTON SCHOLARSHIP

Winifred Smith Buxton, a member of the class of 1899, has established a scholarship fund of \$9,345, the income from which is to be awarded annually to a worthy student at Pomona College.

THE WILEY N. CALDWELL MEMORIAL SCHOLARSHIP-LOAN FUND

The Wiley N. Caldwell Memorial Scholarship-Loan Fund provides each year at least one scholarship of a suitable amount for any student with financial need; or principal or income, or both, may be used for loans to worthy and deserving students.

CALIFORNIA SCHOLARSHIP FEDERATION AWARD

A scholarship with maximum stipend of \$1400 is given by Pomona College to a man or woman nominated by the California Scholarship Federation.

THE CANFIELD FOUNDATION SCHOLARSHIPS

The Canfield Foundation has made available \$5000 for scholarships for women students from Los Angeles County entering Pomona College in September, 1964. These scholarships will be continued through the full undergraduate course subject to the approval of the Financial Aid Committee and the Foundation.

THE ADA "CHEVY" CHASE SCHOLARSHIP

A scholarship of \$1000 for a man or woman of Sophomore standing who has demonstrated personal and academic merit. Preference will be given to persons who are in need of financial aid because of exceptional family circumstances. Further preference will be given to Negro and foreign students who have personal and academic merit and financial need.

CHEMISTRY CONTEST SCHOLARSHIP

A scholarship with maximum stipend of \$1400 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Chemical Society. The recipient must be among the top fifteen contestants, must show financial need, and satisfy all entrance requirements of the College.

THE CLAREMONT CHURCH SCHOLARSHIP

A scholarship of \$250 is available each year to an upperclass student planning on life-time Christian service or to a Senior about to enter seminary training. Choice is made in the spring by the Financial Aid Committee upon nomination from the Department of Religion acting in consultation with the minister and a member of the World Service Committee of the Claremont Church.

THE PERRY W. CLARK MEMORIAL SCHOLARSHIP

A fund of \$9,275 has been established in memory of Perry W. Clark, the income from which is available to a deserving student in any class at the College.

COLLEGE SCHOLARSHIPS

A fund of \$243,356 has been established over the years by friends of the College, the income from which is available for the assistance of worthy students.

THE KATE CONDIT MEMORIAL SCHOLARSHIP

A scholarship of \$100, endowed by the late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding student in the Department of Music.

THE CONTINENTAL OIL COMPANY AND DOUGLAS OIL COMPANY SCHOLARSHIP

An annual scholarship in the amount of \$500 is to be awarded to a student participating in some aspect of the International Relations program at Pomona College. The student should be qualified academically and should have financial need. An additional grant is made to the College budget to help defray the full cost of instruction.

THE DANIEL WILLIAM COOPER SCHOLASTIC FOUNDATION

An award of \$100 is open to a man or woman in any class.

THE CORBETT SCHOLARSHIP FUND

A fund of \$95,268 established at Pomona College by the late Matthew M. Corbett provides income for aid to worthy students with financial need.

CROWN ZELLERBACH FOUNDATION SCHOLARSHIP

A scholarship of \$1,000 for the academic year 1964-65 will be given by the Crown Zellerbach Foundation to a Junior or Senior student majoring in the field of economics. A grant is also made to the college budget to help defray the full cost of instruction.

CYPRUS MINES CORPORATION SCHOLARSHIP

An award of \$500, available for the academic year 1964-65, has been provided by Cyprus Mines Corporation. A grant is also made to the College to help defray the full cost of instruction.

THE FRANKLIN AND LILLIAN B. DEMAREST MEMORIAL FUND

A fund of \$1909 was established by Mr. and Mrs. Demarest, the income from which is to be used in financial aid to students.

THE GEORGE CURTIS DE GARMO SCHOLARSHIP

The late George Curtis De Garmo of Los Angeles has established a scholarship fund of \$17,406 at Pomona College, the income from which is available annually to a worthy student.

ARTHUR M. AND FANNIE M. DOLE SCHOLARSHIP FUND

A fund of \$60,000 established by the late Mr. and Mrs. Dole of Pomona provides income for financial aid to deserving students.

THE DOUGLAS AIRCRAFT COMPANY SCHOLARSHIP

The Douglas Aircraft Company has established a scholarship of \$1250 for the academic year 1964-65, to be awarded to a Junior student at Pomona College enrolled in the combined engineering program with the California Institute of Technology. A grant is also made to the college budget to help defray the full cost of instruction.

THOMAS J. DOWLING SCHOLARSHIPS

A fund of \$10,000 provides income which is available for awards to men and women.

THE RICHARD P. EDMUNDS MEMORIAL FUND

In addition to providing funds for the annual Richard P. Edmunds Memorial Prize in Physics, the Fund provides an endowment in support of scholarships awarded by the Committee on Financial Aid to any student in Pomona College who has financial need.

THE MALCOLM EVERSOLE MEMORIAL FUND

A scholarship for a man in the Junior Class to be nominated to the Committee on Financial Aid by the President of the College at the end of the nominee's second year in Pomona College. The selection is based not on scholastic rank only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character.

EXECUTIVES' SECRETARIES, INC., POMONA VALLEY CHAPTER SCHOLARSHIP

An award of \$700 provided by the Pomona Valley Chapter of Executives' Secretaries, Inc., is available to a woman student at Pomona College who needs financial assistance.

THE WILLIAM C. FREE AND MAZY BELL FREE SCHOLARSHIPS

The late Mrs. William C. Free of Pasadena has established a trust fund from which an income of approximately \$7000 per year is available to Pomona College for the awarding of scholarships to students in any of the four classes. One of these scholarships is reserved for a student concentrating in music.

THE THERESE GARNER SCHOLARSHIP

A scholarship of \$940, open to a man or woman in any class, has been endowed by Mrs. Therese Garner.

GENERAL ELECTRIC COLLEGE BOWL SCHOLARSHIP

A fund of \$9,000 won by the Pomona College team of Dallas Holmes, '62, David Renaker, '63, Richard Wilsnack, '64, and Matthew Cartmill, '64, in the General Electric College Bowl competition, has been established as a scholarship fund, the income to be used annually to assist worthy students.

THE ROBERT E. GROSS/LOCKHEED AIRCRAFT CORPORATION SCHOLARSHIPS

A fund of \$50,000 has been established at Pomona College by the Lockheed Leadership Fund in memory of Robert E. Gross, founder and principal officer of the Lockheed Aircraft Corporation for twenty-nine years until his death in 1961. The income from the fund is available for financial assistance to worthy students who are citizens of the United States, who intend to major in science, engineering, economics, or other fields applicable to the aerospace, electronic, marine, manufacturing or construction industries.

MARGARET BURTON HARWOOD SCHOLARSHIPS

A fund of \$51,171 has been established, income from which is available for scholarship awards to men or women.

THE HAYNES FOUNDATION SCHOLARSHIPS

A tuition scholarship of \$1250 and a tuition-subsistence scholarship of \$1750 have been established at Pomona College by the John Randolph Haynes and Dora Haynes Foundation to assist deserving Senior students in the Social Sciences. The criteria of award include exceptional scholastic record, character, promise of professional growth, industry, and need. It is also desired that the candidates obtain some kind of internship experience in their chosen fields, or be required to write a special senior thesis. In addition to these awards, the Haynes Foundation has made a further grant of \$3000 which will be available to advanced students in the Social Sciences for 1964-65.

THE A. L. HOBSON MEMORIAL SCHOLARSHIP

A scholarship of \$670 is open to a man student from Ventura County, California, who needs financial assistance to attend college. The recipient may be a member of any class at Pomona.

THE PAUL MYLREA HOLDEN SCHOLARSHIP

The late Mrs. Susie Mylrea Holden has established at Pomona College a scholarship fund of \$10,000 in memory of her son, the income from which is available annually to students who need financial help.

THE HOUCHIN FOUNDATION SCHOLARSHIP

A fund of \$5,269 has been established by the late Mr. C. E. Houchin of Bakersfield, income from which is available to Junior or Senior students who need financial aid to finish college.

THE HORACE EMORY AND EMMA BANTA HOWARD PRE-MEDICAL SCHOLARSHIPS

A fund of \$176,829 has been established by Mrs. Horace Howard, the income from which will provide financial assistance to students preparing for careers in medicine, including medical research.

THE WILLIAM J. HOWARD MEMORIAL SCHOLARSHIP FUND

Established by alumni and friends in memory of William J. Howard, '14. A scholarship of \$160 is awarded annually to a student for lessons in applied music.

THE HUGUENOT SOCIETY OF AMERICA SCHOLARSHIP

A scholarship in the amount of \$1,000 annually is available for a Pomona College student who has financial need, who is able to prove descendancy from the Huguenots in America in the 18th century. A description of the method of proving eligibility for the scholarship may be obtained from the Office of Financial Aid, Pomona College.

THE GEORGE KENNETH IRVIN MEMORIAL SCHOLARSHIP

A scholarship of \$200 per year, established by the family of the late George Kenneth Irvin, is available to a man or woman student who needs financial assistance.

THE JAMES IRVINE SCHOLARSHIPS

A scholarship fund of \$60,000 has been established by the James Irvine Foundation, the income from which will be used to assist both men and women students at Pomona College in paying their tuition, board, lodging, and other expenses incidental to their education at the College. These scholarships are limited to students residing in the State of California, preference to be given to those in Orange County.

WILLIAM L. JENCKS AND LUCY ATWATER JENCKS FUND

A fund of \$20,800 has been established by Mr. and Mrs. Jencks, the income from which is to be used to pay tuition and any and all expenses of any worthy student at Pomona College, who is financially unable to meet his own expenses.

JUNIOR COLLEGE SCHOLARSHIP

An award with a maximum stipend of \$1400 is available to Junior College graduates.

THE KAPPA DELTA HONOR SCHOLARSHIP

An annual scholarship of \$800, established in 1926 by alumni members of Kappa Delta Fraternity and administered under a special committee, is awarded at the beginning of his Senior year to an outstanding all-around man, who shows qualities of character, intellect, leadership, sportsmanship, and proficiency in athletic pursuits. The recipient must have been in residence during all three lower years, and must rank in the highest third of all the men in his class.

THE JUDITH KENISON MEMORIAL SCHOLARSHIP

The income from a fund of \$1,400 honoring the memory of Miss Judith Kenison is available to assist any worthy student in any class who has financial need.

THE CLAYTON A. AND LOTTIE CULLER LANGWORTHY MEMORIAL SCHOLARSHIPS

A scholarship fund of \$25,957 has been established by the late Mrs. Clayton A. Langworthy, the income from which is to be used for the education of worthy young persons with ambition and ability who otherwise would have to forego an education.

BERTHA LEBUS SCHOLARSHIP

A scholarship of \$1,050 endowed by Miss Bertha Lebus is available annually to a matriculated student attending the college. The recipient must be a person who shows a high degree of promise and who needs financial assistance.

THE JOHN G. LOCKE SCHOLARSHIP

A scholarship fund of \$5,000 has been established by the late John G. Locke of La Jolla, income from which is to be available to a worthy student at Pomona College.

THE LOCKHEED SCHOLARSHIPS

The Lockheed Aircraft Corporation has established at Pomona a four-year scholarship for students concentrating in a subject applicable to a career in the aircraft manufacturing industry. Such fields of concentration may be either in the sciences or the social sciences. Lockheed Scholarships include full tuition and \$500 a year toward other college expenses, plus a grant to the College budget to help defray the full cost of instruction.

THE WILLIAM DELOSS LOVE AND POLLY LOVE DUNNING SCHOLARSHIP FUND

A fund of \$62,502 has been established at the College by the William DeLoss Love Foundation, the income to be used for scholarship purposes.

THE RICHARD N. LOUCKS, JR., MUSIC SCHOLARSHIP

A scholarship fund of \$15,000 has been established by Mr. Benjamin M. Stansbury, of La Canada, in honor of Richard N. Loucks, Jr., the composer of *Hail, Pomona, Hail*. The income is awarded annually to a student majoring in applied music.

THE GEORGE H. MAYR EDUCATIONAL FOUNDATION SCHOLARSHIPS

The George H. Mayr Educational Foundation has made available a scholarship fund of approximately \$9,500 per year for the assistance of students from California who need financial aid to attend Pomona College.

THE AMELIE AUGUSTINE McALISTER SCHOLARSHIPS

The late Mrs. Amélie McAlister Upshur of San Marino established at Pomona a fund of \$100,000, the income from which provides scholarships for women. McAlister Scholarships are available to women in any class who need financial assistance to attend college.

THE ROBERT MCFADDEN MEMORIAL SCHOLARSHIP

A scholarship of approximately \$1,150, available annually to a man student, has been established in memory of Robert McFadden, '37, who was killed in action in World War II.

THE ELIZABETH MCINTYRE SCHOLARSHIP

A scholarship fund of \$28,571 has been established by the late Miss Elizabeth McIntyre, income from which is available for scholarships at Pomona College.

THE FRANK H. MERRILL MEMORIAL SCHOLARSHIP

A four-year scholarship, to be awarded to a student whose interest is primarily in the field of science, includes full tuition of \$1,400 plus as much as \$500 a year toward other college expenses. This scholarship has been established by Mr. Willis H. Merrill, '30, in memory of his father.

THE MURRAY MINEHART MUSIC SCHOLARSHIP

A fund of \$9,034 has been provided by the late Mr. Murray Minehart of Laguna Beach, the income from which is available to a student of voice.

THE MINNESOTA MINING AND MANUFACTURING COMPANY SCHOLARSHIPS

A gift of \$1,000 has been received from the Minnesota Mining and Manufacturing Company to be used for one or more scholarships for qualified students with financial need at Pomona College for the year 1964-65.

OLIVER HOMES MITCHELL MEMORIAL FUND

A fund of \$47,569 established by the late Elsie Crosby Moffett provides income for a scholarship or scholarships covering the full cost of instruction to a deserving student from one of the following areas, in order of preference: Bremer County or Benton County, Iowa; the State of Iowa; any adjoining state. Should no acceptable candidate be available in any given year, the income may be used for the general educational purposes of the College.

THE FAXON MORE MEMORIAL SCHOLARSHIPS

Two scholarships of \$900 each are available annually to men students of well-rounded interests and promise of leadership. These scholarships were established by Mrs. Mary E. More of Goleta in memory of her son.

MUSIC SCHOLARSHIPS

Ten awards of \$170 each, to cover the cost of lessons in applied music, will be available in 1964-65.

THE BLAIR NIXON MEMORIAL AWARD

An annual award of \$180 is made from a fund established by his parents and friends in memory of Blair Nixon, '33, to a Senior varsity letter winner who exemplifies the high ideals of the college in scholarship and sportsmanship. The award is made on nomination of a special committee and is presented to a Pomona man at the beginning of his Senior year.

THE ARTHUR NOBLE AND FRANCES W. NOBLE SCHOLARSHIP

A scholarship of \$550, endowed by the late Mr. and Mrs. Arthur Noble, is available annually to a student in any class who needs financial assistance.

THE NU ALPHA PHI MEMORIAL SCHOLARSHIP

A scholarship of \$1,000 endowed by the members of Nu Alpha Phi Fraternity is awarded annually to a man at the beginning of his Junior year. Selection is made by a special committee on the basis of outstanding character and real financial need, the latter partially determined by records of student employment during the school year. Given in memory of the Fraternity's losses in World War II.

THE NUNN, HAMILTON, NUNN MEMORIAL FUND

The late Jewel V. Hamilton has established a fund of \$675,000, the income from which is to be used for scholarships not to exceed \$750 each for worthy and qualified students of Pomona College who have financial need.

THE EVERETT S. OLIVE ORCHESTRAL SCHOLARSHIP

An annual scholarship of \$250 is awarded to a qualified student on the basis of musical ability on an orchestral instrument. It is endowed anonymously in tribute to Everett S. Olive, late Professor of Piano, whose interest has been an important factor in the development of the orchestra. It is normally given to a Freshman. The scholarship is awarded on the joint recommendation of the Music Department and the Committee on Financial Aid. An audition is normally required.

ORCHESTRAL SCHOLARSHIP

An annual scholarship of \$250 is available to a qualified student who will continue study of his instrument in the Pomona College Music Department. Awarded on the basis of musical ability and orchestral competence. Will normally be given to a Freshman after audition by the Music Department.

THE WALTER H. PARSONS AND HAZEN M. PARSONS MEMORIAL SCHOLARSHIP

A scholarship of \$200 given in memory of Walter H. Parsons, '04, and Hazen M. Parsons, '09, is available annually to a man or woman in any class who needs financial assistance to attend college.

THE PHI BETA KAPPA SCHOLARSHIP

A scholarship of \$200 endowed by the Pomona Chapter of Phi Beta Kappa is awarded to a Senior who has been in residence for three years at Pomona and who is selected for the high quality of his scholarship and his promise of future distinction. The award is open to both men and women.

THE FLORA SANBORN PITZER MEMORIAL SCHOLARSHIP

A scholarship of \$1,100 from the Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the class of 1900 in memory of his wife, is available to a woman student in the Sophomore, Junior, or Senior class who has shown scholarship ability and who requires financial assistance to remain in college.

THE POA SCHOLARSHIP

The Pacific Outdoor Advertising Company offers a four-year scholarship to a well-rounded young man who is interested in a field of study leading to a career in teaching or business. The scholarship provides full tuition, basic fees, and cost of books for four years, and provides summer employment if desired. A grant is also made to the college budget to help defray the full cost of instruction.

JOHN W. PORTER TRUST SCHOLARSHIP

A scholarship of \$500, available to a student from the Long Beach area, is provided annually, by the John W. Porter Trust.

THE PRESSER FOUNDATION SCHOLARSHIPS

A fund of \$400 is given to the college annually by the Presser Foundation of Philadelphia, for the assistance of music students. Scholarships from this fund are awarded by the Music Department to students who are interested in music education or other advanced work in music.

THE PHYSICS CONTEST SCHOLARSHIP

A scholarship with maximum stipend of \$1,400 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Association of Physics Teachers. The recipient must be among the top fifteen contestants, must show financial need, and must satisfy all entrance requirements of the College.

THE CLARA S. RATEKIN SCHOLARSHIPS

The late Mrs. Clara S. Ratekin of Covina has established a fund of \$493,503, the income from which is to be used to defray the educational expenses of worthy young men and women. These awards are open to students in any class.

THE MABEL WILSON RICHARDS SCHOLARSHIPS

The Mabel Wilson Richards Scholarship Fund of Los Angeles has made available scholarship assistance for worthy and needy women students from the metropolitan Los Angeles area.

THE CHARLES HARVEY RODI MEMORIAL SCHOLARSHIP

A scholarship of \$1,250 established by Mrs. Lucina Rodi Updegraff, is available annually to a man studying toward a career in medicine. The award is made on the basis of ability and need, and may be available to the same student for more than one year, at the discretion of the Committee on Financial Aid.

THE ALICE M. SANBORN SCHOLARSHIP

A scholarship of \$500 annually, endowed by the late Alice M. Sanborn, is available to a man selected by the Committee on Financial Aid as a representative student at the college. The candidate shall be selected at the beginning of his Junior year, and shall receive the scholarship for both his Junior and Senior years, provided he remains worthy of continued assistance.

THE PAUL E. SCHWAB SCHOLARSHIP

A scholarship of \$190 a year, to be awarded to a Junior or Senior of high scholastic attainment, good citizenship, and need for assistance, who is planning a career in law or science, has been established by Paul E. Schwab, '17.

THE SHATTO MEMORIAL SCHOLARSHIP

A scholarship of \$250 is provided annually from the income of the Walter O. Shatto and Clara R. Shatto Memorial Fund for a qualified upperclassman or graduate student majoring in the Department of Astronomy, the candidate to be selected on the joint recommendation of the department and the Committee on Financial Aid.

THE JAMES SHULTZ SCHOLARSHIP

A fund of \$63,133, established by the late James Shultz of Fresno, provides income for scholarship awards to students in any class.

THE E. HERBERT SPOOR APPLIED MUSIC SCHOLARSHIPS

A fund of \$3,600 has been established in memory of E. Herbert Spoor, '15, the income to be used for applied music lessons and practice fees.

THE JOHN AND BEVERLY STAUFFER FOUNDATION SCHOLARSHIP

A scholarship fund of \$2,500 for the academic year 1964-65 will be awarded to deserving students with financial need who are concentrating in science, preferably in the field of chemistry.

THE OLIVIA PHELPS STOKES SCHOLARSHIPS

A scholarship fund of \$47,000 provides income which is available to worthy students at Pomona College.

THE HENRY E. STORRS AND JULIA A. STORRS SCHOLARSHIPS

A fund of \$25,000 provides income for scholarship awards to men students.

THE WILLIAM W. STOUT SCHOLARSHIPS

A fund of \$199,862 has been established from the estate of the late William W. Stout, the income from which is available for scholarship awards to worthy students in any class.

THE RICHARD E. STREHLE MEMORIAL SCHOLARSHIP

A scholarship of \$400 established in memory of Richard E. Strehle, '41, who was killed in action in the Philippines in World War II, is awarded annually to a Junior or Senior man with the physical, mental and moral qualities desirable in a field geologist. Choice is made near the end of the Sophomore or Junior year, on nomination by the Geology Department to the Committee on Financial Aid. The award may be withheld in any year, and additional awards may be made in years when extra income is available.

ANDREW ACKER SUGG MEMORIAL SCHOLARSHIP

A scholarship of \$1,200 available annually to a Junior or Senior man who shows promise of outstanding work in the field of science has been established by Mrs. Andrew Acker Sugg in memory of her husband.

THE HANNAH TEMPEST SCHOLARSHIPS

Two scholarships of \$125 each are awarded annually to a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

THE TITLE INSURANCE AND TRUST COMPANY FOUNDATION SCHOLARSHIP

The Title Insurance and Trust Company Foundation has established a scholarship fund at Pomona College which will provide annually \$1,400. Awards will be made to Pomona College men with financial need who expect to obtain the B.A. degree in four years. Applicants must be American citizens. The award is renewable if satisfactory grades are attained and if financial need continues.

THE UNION-TRIBUNE CHARITIES SCHOLARSHIPS

The Union-Tribune Publishing Company of San Diego has established one scholarship of \$200 in each of the four classes. A student receiving one of these scholarships for one year may continue to be a candidate for them in another school year. Preference will be given to students interested in journalism who come from San Diego County, but scholarships are open to all students.

THE UNITED CALIFORNIA BANK SCHOLARSHIPS

The California Bank has established a two-year scholarship at Pomona College to assist in his Junior and Senior years a deserving young man from Southern California who plans to follow a business career after graduation. The recipient will receive \$500 in his Junior year and \$500 in his Senior year toward the cost of tuition.

THE JOHN B. WARD MEMORIAL MUSIC SCHOLARSHIPS

A fund has been established by Mr. and Mrs. O. M. Ward in memory of their son, John B. Ward, '48, the income from which is available to students who need scholarship assistance for Applied Music. In the event that there ceases to be a need for Applied Music grants, the income from the fund is to be used for general scholarship aid to music students.

THE ELIZABETH A. WOOD MEMORIAL FUND

A fund of \$14,296 established by Elizabeth A. Wood of the class of 1900 provides income for aid to students of a minority race, with preference to Negro candidates. The amount of the award, or awards, shall be determined by financial need.

THE WILLARD E. AND HENRIETTA P. THOMPSON ENDOWMENT FUND

A fund of \$56,287 provides income from which one or more departments of the college may employ students for clerical or other work. Only those students who need financial assistance are eligible.

LOAN FUNDS

The College also administers loan funds for matriculated students by which it is possible to cooperate with the urgent need of students in making available to them amounts to apply on college bills. Interest at the rate of 3% per annum begins on graduation or at the time of leaving the College. The Office of Financial Aid also assists students in obtaining loans through the United Student Aid Fund program. Applications for loans should be addressed to the Committee on Financial Aid.

SPECIAL LOAN FUNDS

The Associated Women Students Loan Fund, administered by the Dean of Women at the request of the Associated Women Students, makes available for women students short term loans for personal emergencies. It is not normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their expenses. Many are thus helping themselves by various forms of labor such as clerical work, baby sitting, janitor work, waiting on tables, general house work, and gardening.

Aid in securing employment can be obtained at the Placement Office in Sumner Hall.

FELLOWSHIPS AND SCHOLARSHIPS FOR
GRADUATE WORK

The following awards may be made for 1965-66 to graduating Seniors if qualified applicants appear. Applications for these fellowships should be in the hands of the Committee on Financial Aid by April 1, 1965, except in the case of the Harsh Fellowship, application for which should be made to the Claremont Graduate School.

THE HENRY MARTYN BRACKEN AND EMILY ROBINSON BRACKEN FUND

Two or more fellowships for graduate work in the Claremont Graduate School are available from the Bracken Fund. When in any year a graduating Senior does not qualify for the award, the stipend may be given to an undergraduate student in Pomona College.

THE C. E. AND BERTHA M. HARSH MEMORIAL SCHOLARSHIP FUND

This fund, held by the Claremont Graduate School, provides income for scholarship aid to Pomona College graduates. Although the Board of Fellows is empowered to make grants of the income for the assistance of any capable

and promising graduates of Pomona College attending the Claremont Graduate School, it is the preference of the donors that first consideration should be given to those who are doing advanced work in the Fine Arts.

THE WILLIAM LINCOLN HONNOLD FELLOWSHIPS

Fellowships with a stipend determined by the committee of award according to individual circumstances are available from the William Lincoln Honnold Foundation. The award is open normally only to graduating Seniors who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class on the basis of their performance during both the Junior and Senior years, and who wish to continue their studies either in the Claremont Graduate School or elsewhere in America or abroad. The prime purpose of the fellowship is to promote original and creative achievement in the candidate's chosen field of activity rather than merely to reward faithful classroom work. Preference will be given to candidates preparing for scholarly rather than professional work. The selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The plans for graduate work are to be made in consultation between the candidate and the Committee on Financial Aid, the committee having final authority.

UNIVERSITY OF CHICAGO LAW SCHOOL SCHOLARSHIP

A scholarship in the School of Law at the University of Chicago will be awarded by the Pomona College Committee on Financial Aid. Stipend is normally \$720 and is renewable for two years if the student's record is satisfactory.

UNIVERSITY OF CHICAGO SCHOOL OF BUSINESS HONOR SCHOLARSHIP

A scholarship in the School of Business at the University of Chicago is available to a graduating Senior on recommendation by the Committee on Financial Aid. Stipend provides full tuition for one year and is renewable for a second year if satisfactory performance is maintained.

The Committee on Financial Aid also nominates students of Pomona College who wish to apply for certain awards by other institutions and foundations.

CLAREMONT GRADUATE SCHOOL FELLOWSHIPS

In addition to the awards for graduating Seniors offered through Pomona College, scholarships for graduate study leading to advanced degrees are available at the Claremont Graduate School. For detailed information see the catalog of the Claremont Graduate School.

IBM RESEARCH ASSISTANTSHIPS IN THE WESTERN DATA PROCESSING CENTER

Pomona College is a participant in the Western Data Processing Center at the University of California at Los Angeles. Graduate students or prospective graduate students may apply for an IBM Research Assistantship, given through the Center, which consists of a half-time appointment on this campus for work in the general area of business data processing, high-speed digital computer applications or other pertinent fields. Consult Dr. Lorne D. Cook, WDPC Representative on this campus, for further information.

Academic Distinctions

POMONA COLLEGE offers a number of academic distinctions, awards, and prizes to its students. These are given on the basis of academic excellence, and unlike the scholarships, listed on previous pages, are awarded without reference to financial need.

POMONA COLLEGE SCHOLARS

Students who have achieved an academic average of 10.8 in any one year are elected Pomona College Scholars for that year. This is the highest academic award which the college confers on its students.

PHI BETA KAPPA

The Pomona Chapter of Phi Beta Kappa, established in 1914, is the Gamma of California. Seniors "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

PRIZES AND AWARDS

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of \$50 to be awarded to that member of the graduating class ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Ada May Fitts Prize: A prize of \$50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to the woman member of the graduating class who has been outstanding for her intellectual leadership and for her influence on other students in the College. Qualities of character, personality, as well as scholarship, will be considered in making the award.

The Mary Ford Bacon Memorial Prizes: Three prizes of \$100 each for the best essays or monographs relating to the Constitution of the United States are awarded annually by the Departments of History, Government, and Economics. The three contests are conducted separately under special rules made by the faculty of each department. Entries are judged with due regard for effectiveness of style, originality of thought and depth of insight into the spirit and operation of the American constitutional system. The Mary Ford Bacon Memorial Fund also provides a sum of money for the purchase of books and other materials on the Constitution recommended by the faculty in history, government, and economics.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of \$100 is made to the Sophomore man who during his Freshman year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of the Committee on Financial Aid and is presented at the Opening Convocation in September.

ART

The Drew Art Prize Fund: A fund of \$1000 established by Miss Mary Drew provides income for prizes to be awarded to beginning art students for progress in creative graphic expression.

The Rembrandt Club Art Prizes: A number of prizes, totaling \$75, are awarded by the Rembrandt Club in the form of books for excellence in drawing, design, painting, sculpture, and art history.

ASTRONOMY

The Moncrieff Astronomy Prizes: Prizes given to students in the first year course in astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebooks kept in accordance with the teacher's suggestions. Prizes totaling \$60 were endowed by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prizes: Prizes totaling \$40 to be awarded to outstanding students in botany or zoology were endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of \$50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of \$100 is awarded to a Senior student majoring in chemistry or geology who, in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr. James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

ECONOMICS

The Morris B. Pendleton Prizes: One or more prizes of \$100, made possible by the Morris B. Pendleton Fund, are awarded annually to Seniors who have distinguished themselves by their work in economics.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye III, who was a Lieutenant in the Army Air Corps, is offered an annual award of \$100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Prizes totaling approximately \$300 per semester are awarded each year for excellence in English. In the award of these prizes special consideration is given to freshman students who make persistent and successful efforts to improve the quality of their written English, and to concentrators in English literature whose critical writing is adjudged to be distinguished; but unusually fine performance in writing may be rewarded wherever it is found.

GOVERNMENT

The Edward M. Sait Prize: A prize of \$5 for the purchase of a book relating to American or comparative government, or for a membership in the American Political Science Association, is awarded to the student doing the best work in the basic course in government.

The Russell M. Story Prize: A prize of \$5 for the purchase of an appropriate book, or for a student membership in the American Society for Public Administration, is awarded to the student doing the best work in the course in public administration or in state and local government.

The George S. Burgess Prize: A prize of \$5 for the purchase of an appropriate book, or for a subscription to a selected law review, is awarded to the student doing the best work in constitutional law and jurisprudence.

LATIN

The Mudge Latin Prizes: First and second prizes of \$15 and \$10, respectively, for excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of \$50 is offered for the best library submitted by a Senior student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of \$25 is awarded annually to a Sophomore for excellence in his second year of mathematics.

The Jaeger Mathematics Prize: A prize of \$25 to be awarded annually to a Freshman in a beginning mathematics course is endowed by Chester G. and Elfrieda A. Jaeger.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of \$50 to be awarded to a student in the Department of Music, above Freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

The Rudolph Polk Memorial Award: An award established by friends and colleagues of the late Rudolph Polk, is available to a student in instrumental music — violin, viola, cello, or piano. The award will be made, after audition, on the basis of technical competency, musicianship, and general musical background. Students of any of The Claremont Colleges are eligible.

The Cecil H. Short Memorial Prizes: Prizes established in memory of the piano technician who maintained the Pomona College pianos for fifty years. The fund enables the Department of Music to award a fine book or score to one or more graduating seniors who have been outstanding in service and performance in the department.

PHYSICS

The Richard P. Edmunds Physics Prize: A prize of \$100 to be awarded to the upper division student nominated by the Department of Physics as the outstanding physics student of the year was endowed by the late President of Pomona College, Charles K. Edmunds, and Mrs. Edmunds, in memory of their son.

The Tileston Physics Prizes: Two prizes have been established in memory of Professor Roland R. Tileston by former students and by members of his family: a prize of \$10 to the outstanding Freshman or Sophomore student in the Physics 1 course; a prize of \$50 to the Junior student in physics whose record in the course and department work is judged most promising.

PUBLIC SPEAKING

The Kinney Prizes: Awarded to the three students who, in their first year of inter-collegiate competition in Oral Interpretation, make the most distinguished records of contest success. First, second, and third prizes of \$25, \$20, and \$15, respectively, will be awarded by the college chapter of Delta Sigma Rho, on recommendation of the Director of Forensics. The prizes were endowed by the late Mrs. H. N. Kinney.

The Dole Debate Prizes: Awarded to the two lower division debate teams who, in the opinion of the Director of Forensics, have shown the greatest promise in intercollegiate competition during the year. First and second prizes of \$30 and \$20, respectively, will be awarded. The prizes, established by Mr. John H. Dole in memory of his brother, Mr. William B. Dole, were endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: Awarded, in the form of initiation fees and keys, to those who have demonstrated outstanding and versatile performance in debate and individual speaking events to warrant their election to the national honorary forensic fraternity, Delta Sigma Rho. Juniors and Seniors who have been active for at least one year in intercollegiate forensics are eligible for election to Delta Sigma Rho, and therefore, for the King Prizes. These prizes were endowed by the late S. H. Wheeler, in memory of Miss Stella King.

RELIGION

The Hager Prize: A prize of \$25 for the best essay on a foreign missionary subject, open to all students, was endowed by the late Mr. and Mrs. C. R. Hager.

The W. Robert Rankin Prize: A prize of \$100 for the best essay on any theme or topic in Christian life and thought, open to all students, is given by an anonymous donor in honor of the former Chaplain of The Claremont Colleges.



Woodrow Wilson Scholarships were awarded to these Pomona College men in the 1964 graduating class.

General Information

LIBRARY

POMONA COLLEGE shares with the other colleges in Claremont the facilities of the central Honnold Library, which together with the several branch libraries houses 348,000 volumes, 248,000 bound and unbound Government documents, 33,500 volumes in microtext, and several collections of rare books and pamphlets. The Library currently receives 2,971 periodicals and 61 newspapers. Total Pomona holdings in the Honnold Library and in branch libraries number 177,000 volumes. Some 16,000 art prints, slides and photographs, 3,000 sound recordings, and 5,000 maps are housed in other academic buildings.

Special Pomona Collections housed in the Honnold Building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, the Waldemar Westergaard Collection of Baltic area history, and the Carnegie and Viola Minor Westergaard Art Collections. The following Pomona College special collections are a part of the general library administered by the Honnold staff: the Parish Botany Library in Crookshank Hall and the Rancho Santa Ana Botanic Garden building; the Mathematics, Physics and Astronomy Libraries in the Robert A. Millikan Laboratory; and the Chemistry, Geology, and Zoology Libraries in the Seaver Laboratories.

In addition to the Pomona College Library, the Honnold Library also houses the libraries of the Claremont Graduate School, Claremont Men's College, Harvey Mudd College, Pitzer College, and a part of the library of Scripps College. The main Scripps College Library is housed in the Ella Strong Denison Library on the Scripps campus.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published six times a year. These include: the *Annual Catalog*, the *Report of the President*, and *Pomona Today*, the alumni magazine.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of bringing distinguished lecturers to Pomona for a protracted stay and intimate participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, provides for a lecture by some prominent worker in the field of Christian Missions.

The Fred J. Robbins Lectureship, named in honor of its donor, enables the College to bring to the campus at appropriate periods an outstanding scholar in the field of chemistry.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Tuesday at 11 a.m. for the purpose of hearing visiting lecturers or members of the faculty discuss topics of interest to the whole institution. This assembly period is also used for student body and class meetings.

On five stated occasions during the year, including the opening of each semester, a College Convocation is held. Full attendance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The Claremont Colleges unite in a College Church which holds its services each Sunday morning at eleven o'clock in Bridges Hall of Music. The Church is the coordinating force for religious activities among the colleges. Students participate in the services and there is a special student choir.

The Pomona College Chapel, which is a service of worship, is held every Thursday morning from 11:00 to 11:25 in Bridges Hall. Both students and faculty participate in the service, at which attendance is voluntary.

Various expressions of religious interest and forms of religious activity exist on the Pomona campus: worship, study and discussion groups, campus and community programs of service, and contacts with inter-collegiate enterprises. These interests and their sponsoring organizations are centered in the College Church as a campus-wide agency to encourage interest in religion and to develop religious activities. The College Church maintains relationships with the national Student Christian Movement and the World Student Christian Federation.

MUSIC

The College cooperates with the other Claremont Colleges in the presentation in Bridges Auditorium of the most distinguished masters in the field of music. Regularly included in the series is the Los Angeles Philharmonic Orchestra. For these concerts an annual ticket is furnished without extra charge to each full-time student.

Under the auspices of the Pomona College Department of Music, public recitals by individual students and members of the faculty and by groups are given frequently in Bridges Hall.

The Geiger Fund, an endowment established by the late Hector Geiger of Los Angeles in memory of his wife, Elizabeth McLeod Geiger, enables the College to bring distinguished musicians to the campus.

The Pomona College Symphony Orchestra, the Choir, the Men's and Women's Glee Clubs, the Band, and chamber music groups afford opportunity for the study and public performance of the finest in ensemble music.

CAMPUS ORGANIZATIONS

The Associated Students: This association, whose officers are elected by the student body, coordinates all student activities. It is headed by an Executive Board, composed of the President of the Associated Students and six elected Commissioners: Social Affairs, Financial Affairs, Educational Policy, Athletic Affairs, Communication, and External Affairs. The men and women students each have separate organizations to promote their respective interests, and each of the four classes is organized for class social life.

Honor Societies: Ghosts, for men; Mortar Board, for women.

Honorary Fraternities: Phi Beta Kappa; Gamma Chapter of Alpha Kappa Delta, sociology fraternity; California Alpha Chapter of Kappa Mu Epsilon, national honorary mathematical fraternity; Delta Sigma Rho, national honorary forensic fraternity; Delta Phi Alpha, local chapter of the national honorary German society; Pi Sigma Alpha, honorary society in Political Science; Psi Chi, honorary psychology fraternity; Sigma Delta Pi, Spanish national honor society.

Local Social Fraternities: From the early days of the college, Pomona has sponsored a system of local fraternities. Currently there are seven such fraternities on the campus: Alpha Gamma Sigma, Kappa Delta, Kappa Theta Epsilon, Nu Alpha Phi, Phi Delta, Sigma Tau, and Zeta Chi Sigma. The college provides a club room for each fraternity in the residence halls on the men's campus. Fraternity members live in the residence halls and take their meals in the college dining halls. The fraternities pledge new members during the Sophomore year. There are no sororities.

Departmental Organizations: American Chemical Society, Anthropology, Caducean Society, Economics Club, English Club, French Club, German Club, International Relations Colloquium, Mathematics Club, Psychology Club, Russian Club, Spanish Club.



Pomona student Richard Yarnell (left) plays the role of Mephistophilis in Marlowe's "Faustus," with Wolfe Morris, actor from the "Old Vic" Company of London, as Faustus.



Barrows' Rifles, a crack volunteer rifle squad of the Pomona-Claremont ROTC unit, is named in honor of General David P. Barrows, '94.



Students with varied academic interests participate in choir, orchestra, and other musical organizations.

Dramatic Organizations: Masquers, in Dramatics; Orchesis, in Dancing.

KSPC: A 3000 watt FM radio station owned by Pomona College and operated by Pomona students, covering the entire Los Angeles basin, provides radio experience for interested students.

Other Organizations: International Students Organization, Model United Nations, World Affairs Board of The Claremont Colleges, Women's Recreational Association, Young Democrats, Young Republicans.

STUDENT PUBLICATIONS

The Student Life, the weekly newspaper, which was established in 1889, is the oldest college newspaper in Southern California.

Other student publications are: the *Metate*, the yearbook; a student handbook, which contains material designed especially for new students; and *MSS*, a literary magazine.

FACULTY-STUDENT COMMITTEES

Pomona College assumes that most of the matters which affect the College are of concern to both faculty and students and believes that the experience and the judgment of both should be taken into account in the management of much of the college life. For this reason a large number of the policy forming committees of the college have both faculty and students as voting members. These committees now include the following: Admissions, Athletic Council, College Council, Public Events, Radio Station, Religious Activities, and Student Advising.

CONDUCT

Pomona College assumes that its students, having voluntarily enrolled, are in sympathy with its purposes and philosophy, and will abide by its accepted practices. This basic philosophy is that all members of the college community will govern their conduct by standards of good taste and ethical judgment, and will exercise their responsibility as members of the community when these standards are disregarded by others. Any behavior on or off the campus which may bring discredit to the individual or to the College may result in disciplinary action. The use or possession of alcoholic beverages of any kind on the campus is prohibited by the College.

The faculty has placed the interpretation and execution of these policies in the hands of the Committee on Student Affairs, which consists of the deans and certain faculty members appointed by the President.

The Student Affairs Committee joins with nine students elected by the student body to form the College Council. Since 1959 the College Council has been delegated the responsibility for dealing with interclass rivalry and class shows, and for the administration of discipline, except for cases involving fraternities and infringements of academic honesty and honor. The College Council also makes general policy concerning social affairs of students on the campus.

Students are held responsible for the AMS and AWS residence rules. The Judiciary Councils of the Associated Women Students and the Associated Men Students administer regulations concerning conduct in the residence halls on their respective campuses, and, acting together as a joint body, carry out the policies of the College Council and act as a court or advisory body in matters of discipline, except in those considered by the deans to involve serious problems of personality adjustment. The Judiciary Councils are empowered by the College Council to take disciplinary action up to and including expulsion in cases of misconduct. Any member of the Judiciary or any defendant in a judiciary case may appeal any judiciary decision to the College Council. Any judicial action resulting in expulsion must be reviewed by the College Council.

Individual or collective student enterprises which use the college name and involve the absence of the participants from the college must receive the official sanction of the Committee on Student Affairs.

The College reserves the right to require the withdrawal of any student whose conduct is considered by the Student Affairs Committee to be detrimental to the best interests of the college.

AUTOMOBILES AND MOTORCYCLES

Rules governing student use of motor vehicles are determined and administered by The Claremont Colleges. Students maintaining motor vehicles in Claremont are subject to the following regulations:

REGISTRATION AND LIABILITY: Ownership of the car, together with its license number, must be registered with the Campus Security Office during college registration at the opening of each semester or within three days after the car is driven in Claremont. The student is responsible for displaying on the bumper of his automobile The Claremont Colleges sticker affixed at the time of registering the car. At that time the student must also furnish evidence of having liability insurance. For temporary use of two weeks or less the student is obligated to secure a temporary permit from the Campus Security Office within three days after the car is driven in Claremont, or he will be subject to penalty. In this instance no fee is charged.

A student's car is assigned to a specific campus parking lot at the time of registration. Parking on the streets in the campus area is prohibited between the hours of 8:00 a.m. and 4:00 p.m. In addition, the

City of Claremont prohibits overnight parking on any streets which are not specifically designated as student parking lots. A student residing off-campus may use only the parking lot to which his car is assigned. Campus curb parking is reserved for visitors and maintenance vehicles during the day.

The student receives when registering the vehicle a booklet of information and regulations for which he is responsible. A driver must at all times, both on and off the campus, exercise particular care and consideration for the safety of himself and others, and must acquaint himself with the state and local traffic laws and comply with their observance.

No campus-resident student may use or park a motorcycle, motor bicycle, or motor scooter anywhere on the campuses, grounds or streets of The Claremont Colleges. A student may drive or keep a motorcycle outside of college limits provided he does not bring it on any part of the campuses.

An off-campus resident who needs a motorcycle or a motor scooter for commuting purposes may secure a special permit and driving instructions from the Campus Security Office. This permit is solely for commuting to the campus, not for driving about the campuses or college streets. The fee for motorcycle, motor scooter, and motor bicycle registration is the same as for an off-campus student's car permit.

Failure to comply with the regulations stated above and in the booklet of information issued to the student when he registers his vehicle shall constitute an offense against the College. The penalty for violation of motor vehicle regulations of The Claremont Colleges may include fines, temporary sequestration and storage of the vehicle at the student's risk and expense, loss of campus driving privileges, or suspension from college. Regulations are systematically enforced.

A heavy fine is assessed for failure to register a motor vehicle within the time limit stated above or for failure to display the authorized registration sticker on the bumper.

VEHICLE REGISTRATION FEES: A campus-resident student who keeps a car on campus will be charged a fee of \$10 a semester. A student residing off campus and using a motor vehicle on campus will be charged a fee of \$5 a semester.

The Campus Security Office is in the Buildings and Grounds area, at the south end of the college campus on First Street.

BICYCLES

All students of The Claremont Colleges bringing bicycles to the campus are required to register them during the beginning of the College year at a time to be announced, or within 72 hours of bringing the bicycle

onto the campus. This registration, for which there is a fee of 50¢, meets the requirement of the City of Claremont for bicycle registration. A fine of \$2 (payable to The Claremont Colleges at the Business Office) will be charged for failure to register within the specified period. Students should report missing bicycles immediately to the Campus Security Office.

HEALTH SERVICE

The Claremont Colleges maintain an Infirmary and Health Service with two full-time physicians and several nurses in attendance. The medical advice of the College Physician is ordinarily available, free of charge, to all students in the colleges, although certain reasonable limitations in connection with hours and location of calls are in force. Surgical dressings and medicine, medical service in chronic or prolonged illnesses, and medical service for accidents or acute illnesses which require more than ordinary first-aid emergency treatment involve extra fees to be paid by the students. Fees for specialists, consultants, or special nurses are also met by the student. In any illness the student is entirely free to choose his own physician on a private fee basis. The student is entitled to ten days each year at the College Infirmary without charge for room or meals. If illness requires hospitalization for additional days, the charge is \$7.50 per day. (The College reserves the right to discontinue any part, or all, of this individual medical service at any time without previous notice.)

The College does not assume responsibility for the complete medical care of its students, but only insofar as its present facilities will afford. Preventive medicine and campus health functions are stressed in the college medical program.

All full time students are eligible for accident and health benefits under an insurance plan arranged by the College. Detailed information about this insurance is mailed to each student. Information is also available from the College Medical Office.

MEDICAL REQUIREMENTS

The medical certificate required of all applicants prior to admission includes a physical examination, recent successful smallpox vaccination, a satisfactory tuberculin test, or an x-ray of the chest, performed within the preceding six months, and active immunization against tetanus.

Each academic year a student is in residence he is required to complete a tuberculin skin test or a chest x-ray by November 1. During the registration period, skin tests will be given by the health service staff to previously negative reactors. All positive reactors must be x-rayed yearly. Failure to meet this requirement will result in the suspension of privileges of registration and class attendance until the requirement has been met.

ATHLETICS

Pomona College conducts a program of intercollegiate athletics as a member of the Southern California Intercollegiate Athletic Conference and the NCAA. Our teams, known as the "Sagehens," compete in football, basketball, track and field, baseball, cross country, waterpolo, swimming, wrestling, golf, and tennis. Varsity and Freshman teams are maintained in all sports except golf and wrestling, which are represented by a Varsity team only.

A joint program of sports clubs is conducted with other members of The Claremont Colleges in such activities as soccer, rugby, sailing, and skiing. Schedules are arranged for these club teams with other nearby clubs and colleges, but not exclusively within the Southern California Intercollegiate Athletic Conference.

In addition to the program of intercollegiate sports and the joint program of club teams, Pomona College maintains an extensive program of intra-mural sports open to all men students.

The direction and financial management of athletics rest with the Director of Athletics. There is a faculty Committee on Athletics, and the Director is advised by the Athletic Council, which is composed of three members of the faculty, three members of the student body, and two members of the Alumni Council.

The college endeavors to safeguard students in the use of its physical education facilities, athletic fields, and gymnasiums, and to this end the department has established regulations concerning the use of such facilities, but it is clearly understood that students who use the same do so entirely at their own risk.

THE CLAREMONT COLLEGES COUNSELING CENTER

The Claremont Colleges maintain a Psychological Clinic and Counseling Center under the direction of a Clinical Psychologist. The director of the Center works in conjunction with the college physicians and the college psychiatrist. The Center offers instruction in reading and in study techniques, vocational testing, and consultation and counseling on personal and emotional problems. Most of the services are open to Pomona students without charge, including one consultation with the psychiatrist. The cost of any additional consultations with the psychiatrist must be met by the student, and a nominal fee may be charged for extensive counseling from the psychologist.

VOCATIONAL COUNSELING AND PLACEMENT

Through faculty advisers and the personnel services of the College, students receive assistance in their choice of a career. The College maintains a vocational placement service for the benefit of alumni and students.

Many alumni cooperate with the Director of the Placement Service in assisting seniors and graduates to find employment and to provide reliable occupational information concerning representative business organizations, government agencies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are held on campus under the sponsorship of the academic departments and the faculty and student committees on vocational services.

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work leading to the Master of Arts degree is offered in several fields including Asian studies, botany, economics, education, English and American literature, foreign languages, government, history, mathematics, music, philosophy, psychology, and religion. The Master of Fine Arts degree is given on a two-year program in applied arts.

In connection with the Russell M. Story Program in Business and Public Affairs the degrees of Master of Business Economics and Master of International Studies are given.

The Doctor of Philosophy degree may be taken in Asian studies, botany, economics, government, education, English and American literature, history, international relations, philosophy, psychology, and religion.

The Claremont Graduate School is authorized to recommend candidates to the California State Department of Education for the following public school teaching credentials: general elementary, general secondary, junior college, and special secondary for art. Work is also offered leading to administrative credentials and to the pupil personnel services credential.

The annual bulletin may be obtained from the Admissions Secretary, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

Under a grant from the Fund for the Advancement of Education of the Ford Foundation, The Claremont Colleges are cooperating with Occidental College, the University of Redlands and Whittier College in the Intercollegiate Program of Graduate Studies designed to prepare college teachers of comparative literature, English and American literature, economics and government, and history. Those interested in this program should consult the Dean of the Claremont Graduate School.

GRADUATE RECORD EXAMINATION

Many graduate or professional schools require or request that applicants for admission, as well as for fellowships and scholarships, take

the Graduate Record Examination administered by Educational Testing Services, the national academic testing organization. Students who wish to receive information concerning the dates on which the examination is given are advised to write early in their senior year directly to the Educational Testing Service, Box 1025, Berkeley 1, California.

SUMMER SESSION

The Claremont Summer Session is sponsored jointly by The Claremont Colleges. It is organized in a term of six to eight weeks, and offers a full program of undergraduate and graduate courses. A bulletin describing summer work is published annually in February and copies may be obtained from the Summer Session Office, Harper Hall, Claremont, California.



Professional Preparation

ALTHOUGH THE primary objective of the liberal arts program at Pomona is a broad and fundamental education, some part of a student's work will contribute directly to his preparation for a vocation or for further study in graduate or professional schools. With the increasing demand for specialized knowledge, about seventy-five per cent of Pomona graduates continue their studies for a year or more after receiving the bachelor's degree. Even with the growing pressure for specialization, however, the rapid changes in many fields have given increased importance to breadth of study and to the ability to use specialized knowledge and skills in a context of social and cultural awareness. Most of the positions sought by college graduates—in business, the professions, or government—require proficiency in the use of English and foreign languages; and in many fields a knowledge of mathematics is essential.

The student should take the initiative in seeking advice on his vocational problems and objectives. If he is undecided about his plans he should avail himself of the services of the Counseling Center and should discuss his interests with his adviser or one of the deans. For those who plan to seek employment immediately after graduation the Placement Office provides information on employment opportunities, including schedules of visits by personnel officers to Pomona and the other Claremont Colleges.

GRADUATE STUDY FOR TEACHING OR RESEARCH

The Ph.D. degree is a common requirement for college or university teaching or for research positions in government or business. A student planning postgraduate study in any of the subjects taught in Pomona College or in related fields should consult his adviser and the chairman of the department for information and advice on meeting the requirements for the proposed graduate program. Very early in the first semester information concerning national fellowships for graduate study is compiled and distributed, chiefly among Seniors.

For a list of fields of concentrations see page 91, and for details see the departmental statements and course offerings. The following list of opportunities for professional preparation is merely supplementary to these statements; it is intended as an additional preliminary aid, not a substitute for consultation and advice.

AGRICULTURE, FORESTRY, AND LANDSCAPE ARCHITECTURE

A strong program in the natural sciences is the best preparation for agriculture or forestry and, coupled with an equivalent program in art, for landscape architecture. Courses which prepare for graduate

study in these fields are available at Pomona College. A complete list of recommended courses in all three may be obtained from the Department of Botany

ARCHITECTURE

The Art Department offers, within the framework of liberal education, training in fine arts with emphasis on subjects which form part of the requirements for advanced work in professional schools of architecture. For details of this program the student should consult the chairman of the Art Department.

BUSINESS

Students who plan to attend a graduate school of business, to study for an advanced degree in economics, or to enter one of the special executive training programs for college graduates should consult members of the Department of Economics for advice in planning their courses of study.

For an economics-engineering curriculum see the description in the section on Special Programs.

ENGINEERING

Students who plan to enter a professional engineering school should arrange a program of studies strong in mathematics and physical science. Interested students should consult Mr. Fryer and other members of the staff in physical science who are acquainted with engineering graduate school requirements.

For a combined plan of study at Pomona and the California Institute of Technology see the section on Special Programs.

LAW

The best law schools do not require any particular undergraduate concentration; they are interested in breadth of background and quality of work. Lawyers and law schools agree that the ability to write and speak with clarity and precision is of paramount importance. A broad foundation in government, economics, and history is essential; accordingly if the student concentrates in one of these, he should be sure to supplement his choice with courses in the other fields. A year of accounting is strongly recommended. Those interested may consult with a member of the Pre-law Committee: Mr. Cook (chairman), Messrs. Bracher, Flournoy, and Kemble.

MEDICINE AND ALLIED FIELDS

Admission to medical school is not dependent on any particular undergraduate concentration program, nor is it guaranteed by graduation from Pomona College. The Medical Sciences Committee of Pomona College, in cooperation with the academic advisers, helps the student plan a program which ensures adequate preparation for the study of medicine and dentistry. The Committee also advises students preparing for the allied fields of medical technology, nursing, physical and occupational therapy, and hospital administration, and assists students in choosing and making application to the professional schools. All students who intend to apply to such professional schools should register themselves with the Medical Sciences Committee in Room 100, Seaver Laboratory, soon after entering college.

Prospective applicants for admission to medical school are urged to study as early as possible, preferably in high school, the booklet "Admission Requirements of American Medical Colleges Including Canada," which may be purchased (\$3.00) from the Association of American Medical Colleges, 2530 Ridge Avenue, Evanston, Illinois.

THE MINISTRY

Theological seminaries have varying requirements for admission. Though some are now suggesting an undergraduate concentration in religion, there is no uniform policy. Information about specific programs and requirements of theological schools may be secured from the Department of Religion.

MUSIC

Professional work in music is so diversified that the interested student should seek the advice of competent musicians both on the faculty and outside the College. Some form of post-graduate training is generally required to qualify for positions in the profession.

PSYCHOLOGY

Psychologists today work in many fields of specialization in industry, education, the armed services, public health, and social services. Detailed information concerning these varied professions and recommended programs of study in preparation for graduate training in special fields may be obtained from the chairman of the Department of Psychology.

PUBLIC SCHOOL TEACHING AND ADMINISTRATION

Pomona College does not itself recommend candidates to the State Department of Education for credentials, but it does offer courses leading to later certification by a graduate school. A year of post-graduate study is required. For information concerning requirements for certification as they affect the election of courses in college, the student should consult members of the Committee on Preparation for Teaching: Dean Sanders (chairman), Mr. Faust, and Mr. Meyer. For further information, see the statement accompanying the course offerings in Education. A joint program of Pomona College and the Claremont Graduate School is described in the section on Special Programs.

SOCIAL WORK

The field of social work covers many positions in agencies designed to meet human needs. Students interested in careers in social work are urged to consult the chairman of the Department of Sociology and Anthropology for advice on course offerings in the College, graduate school requirements, and specific job qualifications.



The Curriculum

THE PURPOSE of Pomona College is to prepare students for a society which expects of them leadership in diverse roles and offices, humble or great. The College endeavors to help its students toward a life in which professional achievement is accompanied by personal happiness, cultural balance, and social responsibility. Its program, therefore, includes courses intended primarily for general education as well as courses designed for specialized study and preprofessional training.

The immediate objective of general education, as expressed in the course requirements of the College, is to help the student develop:

1. Ability to use the English language effectively, in reading, in writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civilization.
4. Understanding of human society, its problems and its institutions.
5. Understanding of the nature and operation of the American economic and political institutions.
6. Knowledge and appreciation of literature and the fine arts.
7. Knowledge of and sensitivity to ethical and spiritual values.

Because of the wide range of experience and special preparation among entering students, a considerable degree of election is permitted within the requirements designed to help the student achieve a liberal education. The requirements are planned also to encourage the student to investigate fields of knowledge new to him.

To secure the benefits of intellectual discipline derived from concentrated study, and at the same time, in many instances, to prepare for professional training after graduation, every student is required by the end of the Sophomore year to select a field of concentration in which he will complete not less than six courses in upper division work during his Junior and Senior years. The field of concentration may be represented by one department or may extend beyond departmental limits to include closely related subjects. For students of outstanding ability and well-defined interests, the field of concentration may be developed into a program of honors study. These requirements and programs of study are described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers to Freshmen are general advisers who assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the student's first year and in the light of his academic interest an adviser

is assigned with whom the student will work during the remainder of his college course. If at any time a change is deemed wise it is made through the Registrar's Office.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors, *cum laude*, *magna cum laude*, and *summa cum laude*, are awarded on the basis of the over-all average of the student's work and of the quality of the comprehensive examination.

COURSES

Thirty-two courses, with the addition of physical education activities in each semester of residence, are required for the degree. In order to complete in eight semesters the work required for the degree, one must take an average of four courses in each semester and, in addition, the required physical education activities.

A "course" consists of approximately one-fourth of the work expected of a student during *one semester* in lecture, discussion, studio, laboratory, reading, and study. The term applies both to a semester course and to one semester of a year course. The number of hours spent in class and laboratory may vary according to the subject and the level of the work. Some courses meet four or five hours a week, and, unless otherwise indicated, a science course includes whatever laboratory work is required. Courses involving extensive reading normally meet three hours weekly with a fourth hour available for conference.

A "half-course" is allowed chiefly for work in art, music, writing, and some advanced work in independent reading or research.

A "cumulative course" is used for work (e.g., in musical groups or in the Basic Course in Military Science) that continues through four semesters. Partial credit for incomplete cumulative courses is not allowed, except that a student involuntarily withdrawn from Military Science may petition for credit for that part of the work which he has completed.

GRADE POINTS

In order to graduate, a student must not only complete thirty-two courses but also attain an average of at least C grade in all courses for which he has registered in Pomona College and in the regular terms of The Claremont Colleges. An explanation of the grading system will be found on pages 85-86.

RESIDENCE

A minimum of four semesters in regular full-time attendance is required for graduation. For transfer students entering with Junior standing, this means the four remaining semesters. All students, except those engaged in the C.I.T. program, the Pomona Semester Abroad program, or the Washington Semester program, must be in residence in regular standing both semesters of the Senior year.

DISTRIBUTION REQUIREMENTS

All students must satisfy the requirements for distribution as explained on pages 90-91. It is strongly recommended that students meet requirements involving lower division courses not later than the Junior year.

UPPER DIVISION REQUIREMENTS

In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See page 91.)

PHYSICAL EDUCATION ACTIVITIES

Physical education activities must be included in the registration of each student in every semester of residence. Freshmen and Sophomores must satisfy the requirement of two activities each semester, and Juniors and Seniors must satisfy the requirement of one activity each semester. Freshmen and Sophomores enrolled in Military Science are required to take only one physical education activity in each semester, since the military drill required in the Basic ROTC Course is substituted for the second physical education activity. Exemption from this requirement is possible only by permission of the Classification Committee on the recommendation of the College Physician and the Department of Physical Education. Transfer students who met the Physical Education requirement of the institution from which they transferred need take only the amount required for their classification.

AMERICAN HISTORY AND INSTITUTIONS

To be eligible for graduation all students are required by the laws of the State of California to pass examinations or courses in American history and in American and California institutions, including the provisions and principles of the United States Constitution and the principles of California state and local government as established under the Constitution of this State. The requirement in American history may be met by passing an approved course (normally History 100b); the requirement in American and California institutions may be met by passing Government 1; and either or both requirements may be met by passing special examinations. These examinations are given three times a year: for new students, before classes begin in September; for students in residence, early in the first semester and in April or May. The dates of the examinations are announced well in advance. New students are urged to take the examinations set especially for them in September. After these special examinations during the opening days, a student is eligible to take each examination once without fee, but if he then fails to pass he will be charged a \$2.00 fee for re-examination.

Reading lists for those preparing for the examinations are obtainable from the departments of History and Government. The examinations are objective. Students failing an examination should consider the advisability of taking a course to meet the requirement.

Transfer students who have met the State requirements in another college or university will be expected to submit an official record of the fact. Any student who has not satisfied these requirements before the beginning of the second semester of his Senior year will not be considered a candidate for graduation and will not be eligible to take the concentration examination for that semester.

FOREIGN LANGUAGES

A knowledge of a foreign language is a graduation requirement for all students who entered as Freshmen after September 1, 1963, and for all students who, as transfers, enter a class for which the requirement is effective. The requirement may be met by (1) passing the third semester of a foreign language course at Pomona with a grade of C or better, or (2) making a score of 560 or higher on the College Board achievement test in one foreign language selected by the applicant. Those transfer students who must meet the requirement may do so by creditable work in equivalent courses.

A minimum of two years of foreign language study in high school or the equivalent is required for admission to the third semester language course at Pomona. Students

who have had three or more years of a foreign language may wish to take the College Board achievement test to determine whether or not their preparation is sufficient to satisfy the minimal requirement at Pomona. Such an examination may be taken at Pomona in the fall at a date to be set by the language departments, but students are urged to take it before entrance if possible.

Apart from this minimal general requirement, students are advised to ascertain and prepare to meet the language requirements of their field of concentration in college and of their prospective graduate or professional schools. Many students will find it necessary and desirable to achieve a mastery of two foreign languages.

GRADUATION FEE

Every student expecting to graduate at the end of any given semester must file an application for graduation at the Registrar's Office not later than the beginning of his final semester and must include the graduation fee (\$10.00) with the payment of his other fees at the time of such registration. Failure to comply with these two requirements will automatically exclude a student from graduation that semester.

COMPLETION OF REQUIREMENTS

Requests for consideration as candidates for the Pomona College degree from former students who for any reason discontinued attendance before completing all requirements for graduation will not be considered unless submitted within seven years from the time the student normally would have been graduated.

ACADEMIC REGULATIONS AND PROCEDURE

GRADES AND GRADE POINTS

Each candidate for graduation must earn an average of at least C (i.e., six times as many grade points as courses) in courses for which he has registered in Pomona College and in the regular terms of The Claremont Colleges. Grade points are assigned on the following scale:

A	A—	B+	B	B—	C+	C	C—	D+	D	D—	F
12	11	10	9	8	7	6	5	4	3	2	0

These grade points and the resulting grade point averages may be converted to those in use before September, 1961 (A-4, B-3, C-2, D-1, F-0), by dividing by three.

Other grades used are:

- P (passing) No grade points assigned.
- I (incomplete due to illness).
- W (withdrawn with permission).

Regulations concerning these grades and the F grade are explained in the rest of this section.

All F and I grades reported by instructors must be accompanied by a written statement of the specific reasons for the grade.

An F grade can be made up only by repeating the course. When two courses other than physical education activities constitute a year sequence (as in all courses with "a,b" or "a-b" following the number) a student who receives an F grade in the first course may register for the second only with the permission of the instructor. The making up of work which has received the F grade does not expunge the grade from the record. Although credit and grade points are allowed for the repeated work, all courses attempted and grade points earned are counted in computing the student's average.

The I grade is given when the illness of a student justifies the granting of additional time for the completion of the work. Instructors wishing to give an I grade for justifiable cause other than illness must first receive permission to do so from the Classification Committee. The statement accompanying an I grade must include a detailed explanation of how the grade can be made up. A copy of this statement is given to the student. All conditions for removing I grades must be met within seven weeks of the beginning of classes of the following semester. Upon completion of the work within this period the student will receive whatever grade he has earned. An I grade not made up within the designated period automatically becomes an F.

The mark W is used when a student withdraws from a course in accordance with the provisions outlined under Changes in Registration.

The grade P (passing) is used to indicate satisfactory completion of required physical education activities and of work in musical organizations (see pages 151 and 146). It may be used also for other courses under the following restrictions:

(a) Juniors and Seniors may elect to take, outside their fields of concentration, courses to be graded "pass" or "fail." Not more than two courses in any one semester up to a maximum of four courses for the two-year period may be elected on this basis. This election may not include courses taken to fulfill distribution requirements or courses taken in other of The Claremont Colleges. Students must indicate at the time of pre-registration courses to be taken on a "pass-fail" basis, and the grading option may not be changed after the last day for entering classes.

(b) Work in not more than two Junior or Senior reading or research courses within the student's field of concentration may be graded on the "pass-fail" basis at the discretion of the instructor.

Courses taken on the "pass-fail" basis are not included in the computation of the student's grade point average, but those passed are counted in the total of courses required for graduation.

AMOUNT OF WORK

The normal registration is four courses in each of the eight semesters plus Physical Education Activities and/or Military Drill. The three courses in Military Science may be taken in addition to or as part of the thirty-two courses required for graduation. Any student may take for credit, in addition to the normal registration of four courses, one of the following: Military Science; or Military Science and one cumulative course in Music; or one or two cumulative courses in Music.

Juniors and Seniors may register for more than four courses and one cumulative course in Music under the following conditions: (a) they must have a grade point average of 9.0 or better for the previous semester; (b) they may not take more than two additional courses in the four semesters of the Junior and Senior years, or more than one additional course in any semester; and (c) the option is not available to students already taking Military Science III and IV in addition to the normal registration.

The maximum number of half-courses that may be taken in any one semester is two if taken as part of a total registration of four courses, and one if taken in addition to a normal registration of four courses.

The minimum full-time load is three courses. Registration for fewer than three courses places a student in special standing. A student admitted to the college as a special student may be given regular standing only by action of the Admissions Committee. A regular student who drops to special standing may be readmitted to regular standing only by action of the Classification Committee. Special students are not considered to be candidates for a degree.

For the entire four years of college, not more than thirteen courses in one department may be counted toward meeting the graduation requirements.

COURSES IN OTHER COLLEGES

Courses taken in other of The Claremont Colleges during the regular terms may be counted as the equivalent of Pomona College courses in meeting the graduation requirements. For a course carrying less than full credit in the college which offers it special arrangements may be made through the Registrar's Office and the Classification Committee.

All summer session work will be evaluated on the basis of four semester units equalling one Pomona College course.

AUDITING OF COURSES

Students regularly enrolled in The Claremont Colleges may, with the consent of the instructor, audit courses. Such arrangements will not be officially recorded and will not receive credit. An auditor may not participate actively in course work and may not, therefore, request registration for credit after the normal deadline for requesting course registration. Persons not regularly enrolled in the Colleges may audit courses provided they obtain the instructor's permission and pay the regular auditor's fee of \$25 per course.

QUALITY OF WORK

A student is expected to secure each semester six times as many grade points as the total number of courses for which he is registered.

By the middle of each semester instructors are requested to report all students doing unsatisfactory work for the period preceding the date of the report. In addition to these general reports, instructors are encouraged to make reports at any time concerning individual students who are not in good scholastic standing. Advisers and deans receive such reports and take such steps as are advisable in each individual case.

At the end of each semester a complete report is made on every student. This report becomes a part of the student's record and indicates his standing in the courses for which he has been registered.

The college may at any time require the withdrawal of a student if the quality of his work seems to warrant such action. Decision in every such case is reached by the joint action of the Student Affairs and Classification Committees in consultation with the student's adviser.

COMPLETION OF WORK

To be counted as work completed in the course, all papers, reports, drawings, and other assigned exercises must be turned in to instructors before the final examination.

ACADEMIC RECORD

All collegiate work for which a student registers constitutes a part of the academic record, whether or not the work is completed. Students failing to provide the Registrar's Office with transcripts of registrations in other institutions may be subject to dismissal from the College.

READING PERIOD

An instructor of an upper division course may suspend classes for a reading period of not more than three weeks. An instructor who plans to use this option should announce his intention and describe the scope and purpose of the reading period at the beginning of the semester. Usually the reading period comes at the end of the semester. If an instructor elects to have the reading period at another time, he must send to the Dean of the Faculty and the Registrar written notice of the dates of the proposed reading period.

SUMMER READING OR RESEARCH COURSES

A department may offer for qualified students reading or research courses to be completed independently in a summer vacation. The student may not enroll for more than one such course in a summer, and credit will not be given for more than two such courses.

A student enrolled in a summer reading or research course may withdraw without penalty not later than July 31, by written notice to the instructor and the Registrar. The final date for completion of work in summer reading or research courses is the first Saturday after first semester classes begin. The final date for submission of grades is the second Saturday after first semester classes begin. (The College reserves the right to charge a fee for these courses.)

DISMISSAL FROM COURSES

A student who proves unable or unwilling to carry a course satisfactorily may be dropped from it by the Classification Committee upon the recommendation of the instructor.

CLASS ATTENDANCE

Students are expected to maintain regular attendance at all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right to establish such specific regulations regarding attendance as may seem best suited to his particular department.

FINAL EXAMINATIONS

Seniors may not take final examinations in courses in the semester in which they take their concentration examinations. Final examinations are required of all other students in all subjects save as exceptions are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Study Committee. Instructors may not change dates of examinations without the consent of this Committee. Examinations for individual students may not be given at other than scheduled times except by consent of the Classification Committee and on the presentation to the instructor of a Business Office receipt for a fee of two dollars (\$2.00), unless this fee is remitted by the Committee. Special examinations are rarely scheduled, except in cases of serious emergencies, such as illness.

FIELD TRIPS

Field trips are looked upon by the faculty as a legitimate part of certain courses. Permission for such trips is secured by instructors from the Dean of the Faculty at the opening of each semester. Instructors certify to the Dean the names of students participating in these trips.

PRE-REGISTRATION AND REGISTRATION

On appointed days before Christmas vacation in December and late in the spring all students must pre-register by filling out schedules listing their choice of subjects for the following semester. The fee for any change in this pre-registration is \$5.00.

New students pre-register and register on announced days at the opening of each semester.

Registration is completed for all students by the payment of tuition on appointed days at the beginning of each semester.

The fee for late pre-registration or late registration is \$2.00 for the first or second day following the appointed days, and \$1.00 additional for every day thereafter to a maximum of \$10.00.

Students are not allowed credit for courses for which they are not formally registered.

Students may not enter courses later than ten days from the beginning of class work.

CHANGES IN REGISTRATION

Upon application to the Registrar's Office and with the approval of his adviser, a student wishing to modify his schedule of studies by addition or substitution of courses may do so within ten days of the beginning of class work. All students except those registering for the first time are required to pay a change fee of five dollars. No change of registration is official unless the student has complied with the procedure established by the Registrar's Office.

The fee for a laboratory course will be refunded in full to students who withdraw from the course within ten days of the beginning of classes. One-half the full fee will be refunded to those withdrawing by the final day for withdrawal from classes without penalty, but after five weeks from the beginning of classes no laboratory fees will be refunded.

The last date for withdrawing from a course without penalty is five weeks from the first day of classes in the semester. Thereafter the dropping of a course by a student shall entail for him a grade of F for the course, except as circumstances may, in the judgment of the instructor and the Classification Committee, warrant a grade of W.

MATRICULATION

Pomona College distinguishes between the mere admission of a student and his matriculation. To be eligible for matriculation a student must have shown himself to be in accord with the spirit of the College, have carried and passed a minimum of three courses and have made at least an overall average of C in all work attempted during the first term of residence. The standing of all students is provisional until they have been matriculated. A public matriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester may be matriculated at the end of any subsequent semester in which they have carried a minimum of three courses provided they have met all the above requirements including an overall average of C on all work attempted during their whole period of attendance.

Students are not candidates for a degree until they have been matriculated.

THE FACULTY REGULATION ON ENGLISH

In the evaluation of all academic exercises the quality of English used by the student may be considered. Every student in every course is expected to use English that is

grammatically correct and logically sound. Failure to meet such standards as may be set by the instructors for each course may result in a lower grade or failure in that course.

LEAVE OF ABSENCE

A leave of absence may be granted upon petition to the Classification Committee. Only those students in good standing academically and socially are eligible for leaves. A student on leave of absence has permission to re-enter the College in September provided notice of the intent to do so is filed with the Registrar by May 1, or in February if rooms are available. Rooms are ordinarily available in February, but unless specific commitment is made in advance this cannot be guaranteed.

Leaves granted for medical reasons require approval of the College Physician and the Classification Committee, and return from leave requires the approval of the Physician and the Classification Committee.

A leave of absence is cancelled if the holder registers in another collegiate institution without prior approval from the Classification Committee.

Students who withdraw without a leave of absence must apply for readmission to the Committee on Admissions.

REQUIREMENTS FOR DISTRIBUTION

Distribution requirements shall be met only by the Pomona College courses listed below unless exception is granted by the Classification Committee. Students from other institutions who plan to transfer to advanced standing in Pomona College are advised to scrutinize their programs carefully to be sure they have taken the required work and to consult the Registrar concerning any questions as to the acceptance of credit.

Courses listed by number are especially recommended to meet these requirements. The term "course," as explained above, means a full course for one semester.

English 1.

Sciences. Any two courses numbered below 100 in Astronomy, Biology, Botany (except Botany 75), Chemistry, Geology, Physics, or Zoology. (Several departments offer courses planned especially for students concentrating in fields other than science. See the course descriptions for details. The student is advised to elect courses in areas other than those in which he has previously studied.)

Social Sciences. Three courses: Economics 51, 52; Government 1, 55 or, after the Freshman year, 125 or 131; History 1a,b; Sociology 51, 52 or Anthropology 53, 54. It is recommended, but not required, that the student take two courses in one department. In no case may a student take all three courses in one department to meet the requirement.

Literature, Art, or Music. One course. This requirement may be met by a course primarily concerned with the appreciation of literature rather than with the mastery of language, or by a course in art or music. Acceptable courses are:

- a. English 50, 58. For students concentrating in English: 51, 52. Subject to the restrictions indicated in a few course descriptions, any upper-division course in literature may be elected by Juniors or Seniors, and by Sophomores with permission of the instructor.

- b. In the classics and in modern languages, any course, in the original or translation, numbered above 100, except courses in composition and conversation.
- c. Music 53, 54, or any semester course.
- d. Art 1, 2, 9, 51, or any semester course.

Philosophy or Religion. One course. Philosophy: 50, or any course from the Philosophy 110-114 series. Religion: 1, 2, 3; for Juniors and Seniors, any course *except* 107, 111, and 190.

Outside the Division of Concentration: Two courses, freely elected in Pomona or the other Claremont Colleges, in addition to the requirements specified above. Of the total of ten required courses, two outside the division of concentration must be taken in the Junior or Senior year.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a field of concentration during the Freshman year and a definite choice by the end of the Sophomore year. The concentration may be entirely in one department or it may be a joint concentration requiring work in two or more departments. The requirements for both kinds of concentration are explained under department headings before the lists of courses offered. During their first two years students will be expected to complete the basic courses required by the department or departments of their choice.

Concentrations are offered in:

Anthropology	Government
Art	History
Asian Studies —	International Relations
Botany	Mathematics
Chemistry	Music
Chinese Language and Literature	Philosophy
Classics	Physics (with an Astronomy option)
Comparative Literature	Psychology
Economics	Religion
English (including Drama)	Romance Languages
Geology	Sociology
German	Zoology

There are options within the concentrations and there are also a number of interdepartmental concentrations. For details see the departmental statements.

Each student's program of concentration shall culminate in a written comprehensive examination over the entire field in which he has concentrated. The student must pass this examination in order to qualify for graduation. In a few departments research projects take the place of the written examination. The regular comprehensive examinations are given once each year on the dates listed on the College Calendar.

No student is permitted to take both the comprehensive examination and final examinations in courses the same semester.

The comprehensive examination must be taken at the officially scheduled time. Students who have failed the examination may request permission to retake it at the opening of the college year and at the end of each semester. Such applications must be in the hands of the department concerned by September 1, December 1, or April 1. A fee of \$10 will be charged for a re-examination which is taken at other than the times set for a regular concentration examination. All students who intend

to take the regularly scheduled comprehensive examination must file an application with the Registrar not later than the beginning of the semester in which the examination is to be taken.

In the event that a student does not take all or part of his comprehensive examination because of illness, he will receive an "I" for the part or parts of the examination not taken. It is the responsibility of the student who does not take a comprehensive examination because of illness to inform the department giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination must include not less than six courses and not more than eight courses numbered over 100 in the chosen field. These limits apply to that part of the student's program on which the comprehensive examination will be set.

For the entire four years of college, not more than thirteen courses in one department may be counted toward meeting the graduation requirements. This is a permissible maximum. Most students will find it desirable, in planning for their careers after graduation, to take less than this permissible maximum; and most concentrations are planned for less than a total of thirteen courses in four years.



Ten Pomona College track records were broken in 1964 by these men, coached by Edward W. Malan.

Special Programs

COMBINED PLAN CALIFORNIA INSTITUTE OF TECHNOLOGY

Qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from the California Institute of Technology after a combined five-year program, of which the first three years are taken at Pomona. Students under the combined plan will be accepted at the California Institute of Technology without examination if recommended by Pomona.

In satisfying the lower division distribution requirements of Pomona College, the humanities requirements of the Institute should be carefully considered in consultation with the adviser. In addition, the following lower division courses should normally be completed:

Physics 51 or 61
Mathematics 32 or 50

Chemistry 1 or 51
Physics 7 (Graphic Science)

Satisfaction of the Pomona College concentration requirement in pre-engineering for those students who transfer at the end of the Junior year shall include at least five upper division courses selected from the following list in consultation with the faculty adviser. Starred courses shall normally be included.

Mathematics 110*
Mathematics 120
Mathematics 160
Chemistry 158a
Physics 100*, 101*

Physics 141a*, b*
Physics 151a,b
Physics 186
Physics 195
Physics 196

Students planning combined programs in fields such as chemical engineering will approximate the above requirements of five courses but with substitution of more suitable courses where deemed appropriate after consultation with the faculty adviser.

Those students concentrating in pre-engineering who plan to graduate after four years at Pomona College shall complete eight upper division courses selected from the above list.

ECONOMICS – ENGINEERING

This curriculum combines a broad and strong training in the physical sciences with an integrated program of economic and business principles. The student who follows this curriculum will be better prepared to accept with understanding the responsibilities of leadership in the modern industrial organization. The course work may be organized to prepare the student for graduate work in Industrial Management or Business Administration.

The basic Economics—Engineering requirements are: Mathematics 30, 31, 32 *or* Mathematics 50; Economics 51, 52, 71, 150; and Physics 51 *or* 61, *or* Chemistry 1 *or* 51.

The concentration requirement may be satisfied by taking at least one more upper division course in Mathematics, Economics, and Chemistry *or* Physics, with a minimum of three upper division courses (beyond the basic requirements) in one of these fields.

Each student's program will be planned in accordance with his background and interest. A faculty member will advise him which courses in each department can be counted toward the minimum requirements.

FRESHMAN SEMINARS

In 1964-65 several Freshman seminars will be offered on an experimental basis. The seminars, more specialized than most Freshman courses, will provide opportunities to study, by appropriate research methods, subjects of special interest to both students and instructors. Information concerning the seminars and the procedure for applying for enrollment in one of them will be mailed during the summer to the entering Freshman class.

SCIENCE

In addition to the programs of concentration described along with the course offerings of the departments, there are two special programs involving interdisciplinary study and research.

BIOPHYSICAL SCIENCES PROGRAM

For those students interested in experimental medicine, molecular biology, biophysics, and biochemistry a special program supported by the National Institutes of Health was inaugurated in 1963.

Students eligible for participation are those majoring in Zoology, Chemistry, or Physics. Minimum course requirements for the four-year program in addition to those of the particular major are: three courses in Zoology, two courses in Chemistry, two courses in Physics, Mathematics through calculus, and three courses in German, Russian *or* French. Students selected for this program will be designated NIH scholars, and summer research stipends will be available for work at Pomona *or* at other institutions. Travel grants for student attendance at national scientific meetings are also available. Information about the program may be obtained from Mr. Hansch in the Department of Chemistry.

Thirty high school seniors who will be attending Pomona in the fall are invited to the College for an eight-week program. The first three

mornings of each week seminars are held with some of the country's outstanding biophysical scientists discussing their current research on the frontiers between biology and the physical sciences. Students learn to use the College's four digital computers in the handling of biological data.

Stipends are granted to students to enable them to forego summer employment. Grants to cover the cost of travel to and from Pomona are made where more than nominal expenses are involved.

UNDERGRADUATE SCIENCE EDUCATION PROGRAM

Thanks to funds currently being made available by the National Science Foundation through its Undergraduate Science Education program, selected students in biological and physical sciences at Pomona College are able to gain valuable experience in experimental science by means of active participation in research projects and in independent study. Under this program, now in its sixth year, stipends are provided for approximately thirty qualified students participating on a part-time basis during the academic year or working full-time in the summer for a maximum of ten weeks.

In addition to these programs there are numerous grants to faculty members for research which give participating students additional laboratory experience and provide stipends for their assistance.

STUDENT EXCHANGE PROGRAMS

Under arrangements which are made each year, two or three Pomona students of Junior standing are selected from interested applicants to spend a semester at Fisk University, Nashville, Tennessee. The program operates on an exchange basis, and an equal number of Fisk students come to Pomona for a semester's experience. Interested Pomona students should make application to the Fisk Exchange Committee at a time which will be announced by the Chairman of the Committee.

In 1961-62 an exchange program with Swarthmore College was inaugurated. The program, open to upperclassmen, is conducted by the Student Academic Committee in cooperation with the Faculty Committee on Study Abroad. Interested students should ask for further information from the Chairman of the Student Academic Committee.

WASHINGTON SEMESTER PROGRAM

The description of a plan for a semester's study in Washington, D.C., follows the listing of courses in government. The program, conducted by American University, provides an opportunity for first-hand study of governmental operations.

STUDY ABROAD

In cooperation with The Experiment in International Living, Pomona College offers selected students an opportunity to spend a semester in residence in a foreign country in a program of independent study. Opportunity is provided for the students on this program to spend the first weeks of the semester living with a family. To be eligible for the Pomona Semester Abroad students must have the personal qualifications for living with a foreign family and the ability to study for several months without immediate supervision. Although arrangements may be made for attending lectures in foreign universities, the academic program consists chiefly of independent study planned with the assistance of a member of the Pomona College Faculty.

A student may receive credit for as many as three courses on the program. The requirements of the courses, including essays and final examinations, are set by the departments (chiefly in the social sciences and the humanities) which offer plans for the Pomona Semester Abroad.

The Semester Abroad is planned principally for the first semester of the Junior or the Senior year, but applications will be considered for the second semester of the Junior year.

Applicants for the Pomona Semester Abroad program must meet departmental requirements and are screened both by a faculty committee and by representatives of the Experiment. In the year 1963-64, twenty-five students lived and studied in nine foreign countries on the Pomona Semester Abroad program.

Students may also apply for permission to study abroad in the Junior year either by enrolling in one of the programs of foreign study conducted by American colleges and universities or by planning, and securing approval in advance of, an individual program of study at a foreign university. Further information about the Pomona Semester Abroad and about the regulations on other plans for study abroad in the Junior year may be secured from Miss Jean Walton, Dean of Women, who is Chairman of the Committee on Study Abroad.

Not all students find study abroad in their undergraduate years a profitable experience. A student interested in the possibility of study abroad should discuss the question carefully with his adviser, and he should give serious consideration to the relevance of this study to his educational objectives and his plans following graduation.

THE JOINT PROGRAM WITH THE CLAREMONT GRADUATE SCHOOL
FOR TEACHING CREDENTIALS
AND THE MASTER OF ARTS DEGREE

For students qualifying for the Elementary, Secondary or Junior College Teaching Internship Programs at Claremont Graduate School, certification to teach in the public schools of California may be accomplished as follows:

Elementary Internship Program. The applicant enrolls for Introduction to Public School Teaching during the spring semester of the Senior year, followed by a paid teaching internship of a full year in a cooperating elementary school.

Secondary Internship Program. This program is designed for the student planning to undertake study toward the Master of Arts degree in *the subject field or in Education* as an integral part of a program of preparation for high school teaching. The program has a number of optional sequences including a paid teaching internship.

Junior College Program. This program is an integral part of the studies leading to the Master of Arts degree in the subject field and includes a year of full-time residence study toward the degree and a paid internship of one year.

Specific details of these programs are explained in the catalog of the Claremont Graduate School and in descriptive monographs available at the Internship Office in Harper Hall.



The Gladys Shepard Pendleton Pool on the Women's campus

Independent Study

INDEPENDENT study is expected, of course, in connection with all college work. The term "independent study" takes on a special meaning largely as applied to arrangements, outside the regular courses, for students to undertake programs of reading or research. The opportunities for independent study in Pomona College range in scope from departmental "reading or research" courses to a plan for Honors study in the Senior year. Of the special programs described in the preceding section, two are carried on by independent study with a minimum of direction: the Undergraduate Science Education Program and the Pomona Semester Abroad.

In each department qualified Seniors may enroll in one or more courses for independent study, and in some departments the opportunity is not limited to Seniors. Since these courses vary in methods and requirements according to the subject, the student should refer to the offerings in his field of concentration and closely allied fields.

The provision for summer reading and research is described on page 88.

HONORS STUDY

Since 1924 Pomona College has offered a program of Honors study for the student who shows the capacity and inclination for exceptional intellectual achievement and self-direction in his study. An Honors program, consisting of carefully planned tutorial work, permits a student to devote from one-half to his entire time during his Senior year to independent study in his chosen field. The program does not aim to encourage extreme specialization, but rather to permit a student, in consultation with his faculty tutor, to plan and carry out studies of a specific topic in its varied relationships.

General administration of Honors work is vested in the Honors Committee, which reviews individual programs and administers the faculty regulations regarding them. A student enters Honors study at the beginning of his Senior year, and applications for admission to the program must be in the hands of the Honors Committee by May 1 of the preceding year. A minimum grade point average of 9.0 is normally required for enrollment in Honors study. Application forms may be obtained at the Registrar's Office. These should be filled out in consultation with the student's prospective faculty tutor, and approved by the chairman of the department in which the student's concentration lies. The Honors Committee will discuss the program with the student, and if the program is approved, it will appoint a supervisory committee of three faculty members, the student's tutor being chairman.

In planning areas of work in the student's program of Honors study the limitation of not more than thirteen courses in one department is observed. In the event that course requirements for concentration remain unfulfilled at the time that the student begins his Honors study, his plan for the Senior year must include specific arrangements for meeting the spirit of these requirements. This may be done either by taking or auditing courses or by reading as part of the Honors program. The work thus done will be covered in the oral examination. College requirements for "distribution" other than the two courses outside the division of concentration, must be completed before beginning Honors study.

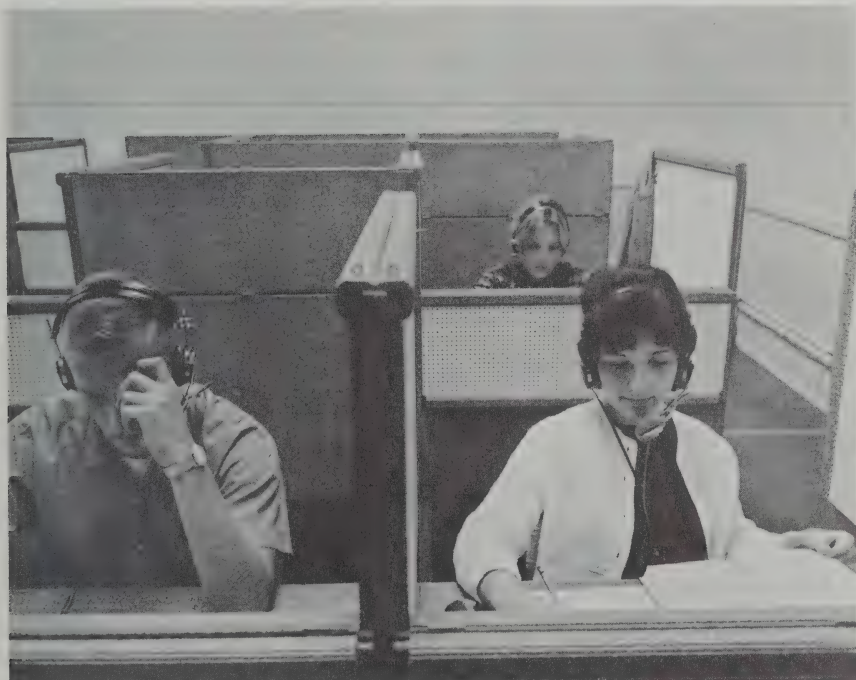
The equivalent of from four to eight courses may be allowed to Honors study. Programs of Honors study must be carried out while in residence at Pomona College.

A student in Honors study meets regularly with his tutor (usually weekly), and pursues such reading, research, experimentation, and writing as may have been outlined in his program of study and which is most appropriate for him. Normally this will include the preparation of a thesis or the completion of a significant project.

The success of a student in his Honors work is measured by the quality of his thesis or project and by written and oral examinations. He will take such of the usual written comprehensive examinations set for his concentration as his department may require. In addition he will appear for an oral examination at the end of his Senior year covering the area of his Honors program. This examination will be conducted by a committee appointed by the Honors Committee and including members of the student's supervisory committee and, whenever possible, at least one member from outside the Pomona College faculty. A member of the Honors Committee will act as chairman. On the basis of this examination, whose quality will be judged by the examining committee, and of his performance through the period of his Honors study and in his thesis or project, the supervisory committee will assign letter grades for the student's work under the Honors program.

A student may withdraw from the Honors program at the end of one semester either upon his own motion or that of his supervisory committee. In this event, the supervisory committee will assign letter grades for work completed up to that time.

Honors projects are due in completed form no later than May 15.



The language laboratory in Holmes Hall

Courses of Instruction

A SEMESTER COURSE or one semester of a year sequence is credited as a full course unless there is a notation that it is a "half-course." In a few instances, notably in advanced courses in independent reading or research, the course may be taken for full or half credit. Such courses are described as "course or half-course." For credit in military science and applied music see the explanations in the departmental statements preceding the course offerings. The number of a course indicates the level of the work, as follows:

Below 50: elementary courses, usually taken in the Freshman year.

50 to 99: second-year courses or beginning courses more advanced than those numbered below 50.

Above 100: primarily for Juniors and Seniors, but open to Sophomores who have had the prerequisites indicated in the course descriptions. Students without previous work in the same field may enter these courses only by written permission of the instructors.

The notation NC indicates that the course is not credited toward the thirty-two required for graduation.

The letters "a-b" or "a,b" following a course number indicate that it is a year sequence. The hyphen indicates that credit will be given only upon completion of both semesters. The comma indicates that credit is given for either semester, but unless a passing grade has been received for the first semester the student may enter the second semester only by permission of the instructor.

The letter "G" after a course number indicates an "intercollegiate" course, taught by a member of the Claremont Graduate School Faculty and listed in the course offerings of more than one college.

Any course may be withdrawn if the enrollment is less than seven.

COURSES IN THE CLAREMONT COLLEGES

The regulations governing off-campus registrations are the same in all The Claremont Colleges. Students may register on their own campus for courses open to them in the other Claremont Colleges subject to the following conditions:

- (1) Freshmen and Sophomores will normally register for their entire program in their college of residence. Exceptions may be made in fields of study not available in the student's own college.

- (2) A student will not register for more than one-half his total program in any one semester outside his college of residence, except as special arrangements have been made in joint programs such as Anthropology, Classics, or Mathematics.

Courses to meet the distribution requirements must be taken in Pomona College unless exception is granted by the Classification Committee. This restriction does not apply to the requirement of two courses outside the division of concentration in the Junior or Senior year. Courses to meet the concentration requirements must be taken in Pomona College, unless departments make exceptions to the rule.

When a course in one of the other colleges duplicates the material of a Pomona course, credit will not be given for both. Since there are changes in course offerings from year to year, the student and his adviser should check carefully to avoid registration for a course in another college which duplicates work taken at Pomona. It should be noted that some courses offered in the other colleges must be taken for the entire year, and consequently credit cannot be allowed for only one semester. In studies involving the use of physical equipment and laboratory space (such as art and science) and in courses conducted in small sections (such as writing and foreign languages), any college may find it necessary to impose limits on the exchange privileges.

Otherwise, within the general regulations governing off-campus registrations in all The Claremont Colleges, Pomona students may register for any courses in the other undergraduate colleges which are open for inter-collegiate registration. A number of these courses are listed in the Pomona College catalog, but registration is not limited to the courses so listed. Consult the mimeographed lists of courses of all the Colleges distributed for preregistration, or the catalogs of the Colleges, available in faculty offices and in the Registrar's office.

Certain courses in the Claremont Graduate School are also open to Pomona Seniors who are concentrating in the fields in which the courses are offered. Short titles for a few of these courses are given following departmental offerings. For fuller descriptions and for information about other courses consult the catalog of the Claremont Graduate School. Permission to enroll in graduate courses must be secured from the chairman of the department in which the Senior is concentrating and from the instructor giving the course.

DIVISIONS

The departments of Pomona College are grouped in three divisions as follows:

DIVISION I [*Humanities*] Art, Chinese, Classics, Comparative Literature, English, German, Music, Philosophy, Religion, Romance Languages, Russian.

DIVISION II [*Natural Sciences*] Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Military Science, Physics, Psychology, Zoology.

DIVISION III [*Social Sciences*] Economics, Government, History, Physical Education, Sociology and Anthropology. The concentrations in Asian Studies and in International Relations are conducted mainly within Division III.

Anthropology

See Department of Sociology and Anthropology.

Art

Two types of concentration are open to students of art within the department: the History of Art and the Practice of Art.

CONCENTRATION: HISTORY OF ART

LOWER DIVISION WORK: Art 1, 2, and a combination of introductory art courses not to exceed a total of four courses. Each year, but particularly during the first two years, art history students are encouraged to take courses in classics, literature, music, and philosophy, as well as in German and French or Italian languages.

UPPER DIVISION WORK: Art 191 for three consecutive semesters and five upper division art history courses.

CONCENTRATION: PRACTICE OF ART

Emphasis on Painting, Sculpture, or Pre-Architecture.

By permission of the instructors, qualified students (except Senior concentrators) may enroll for two courses in the practice of art, to be taken together with credit for a half-course each.

LOWER DIVISION WORK: Art 1, 51, one other art history course, and a combination of introductory art practice courses, and in certain cases upper division courses, not to exceed a total of five courses. Students in pre-architecture are strongly urged to take Mathematics 3a,b, and Physics 2a,b. Each student's program will be arranged according to his interest and ability.

UPPER DIVISION WORK: Six upper division courses in the practice of art including two semesters of Art 185 and two courses in art history. Courses in the student's special field (painting, sculpture, or architecture) should be taken each semester of the Junior and Senior years.

INTRODUCTORY COURSES

1. INTRODUCTION TO ART

Mr. Cope

Second Semester. MWF 9.

A course designed to acquaint the student with what a work of art is and with the major critical and historical interpretations of works of art.

2. INTRODUCTION TO ART (STUDIO)

Mr. McClain and Mr. Grippi

First Semester: F 1:15-4:05 and 1 hour arranged.

Second Semester: MW 2:15-4:05.

An introduction to the various approaches of the artists of today and the past to the creative act. The student works with different materials on problems of visual communication. No previous training in the practice of art is expected.

6. INTRODUCTORY DRAWING

Mr. Grippi and Mr. McClain

First Semester: MW 2:15-4:05 and 2 hours arranged.

Second Semester: T 9-11, Th 9 and 3 hours arranged.

A course investigating various drawing problems and methods as applied to the human figure, still life and landscape.

9. INTRODUCTORY SCULPTURE

Mr. McClain

Each Semester. TTh 1:15-4:05 and 2 hours arranged.

A basic course in sculpture comprising a study of the nature of form and a consideration of different media and techniques.

12. INTRODUCTORY PAINTING

Mr. Grippi

Each Semester. F, 5 hours arranged.

A basic course concerned with the fundamentals of painting techniques.

18. DIRECTED PROJECTS

Staff

Each Semester. Arranged. May be repeated once for credit. Course or half-course.

An opportunity for students who are planning to major in the practice of art to do individual work in either painting, sculpture, or drawing.

19. DIRECTED READING

Staff

Each Semester. Arranged. May be repeated once for credit. Course or half-course.

An opportunity for students who are planning to major in the history of art to do individual reading in the history and criticism of art.

51. HISTORY OF WESTERN ART

Mr. Cope and Mr. Cikovsky

First Semester: MWF 9. Second Semester: TThS 10.

A survey of the major periods of art from the classical era to the present day. Architecture, painting and sculpture are discussed within the cultural, social, and political framework of each period.

HISTORY OF ART

103. THE ANCIENT NEAR EAST AND GREECE

Mr. Carroll

(Offered in alternate years; not offered in 1964-65.)

The art of Egypt, Western Asia and Greece from its beginnings to the fourth century B.C.

104. HELLENISTIC AND ROMAN ART Mr. Carroll

First Semester. MWF 2:15. (Offered in alternate years; offered in 1964-65.)

The art of the ancient Mediterranean from the fourth century B.C. to the end of the Roman Empire.

110. THE ORIGINS OF THE RENAISSANCE Mr. Cope

First Semester. MWF 11. (Offered in alternate years; offered in 1964-65.)

A course in fourteenth and fifteenth century European painting and sculpture, with special emphasis on the works of Giotto, Masaccio, Donatello, Botticelli, and Van Eyck.

112. HIGH RENAISSANCE AND MANNERISM IN ITALY Mr. Cope

(Offered in alternate years; not offered in 1964-65.)

Painting and sculpture of the sixteenth century with emphasis on the works of Raphael, Michelangelo, Titian, Veronese, and Tintoretto.

114. BAROQUE ART OF EUROPE Mr. Cope

(Offered in alternate years; not offered in 1964-65.)

The painting and sculpture of the seventeenth century with special attention to the work of Bernini, Poussin, Rembrandt, Rubens and Velasquez.

115. ROCOCO AND ROMANTIC ART Mr. Cope

Second Semester. MWF 11. (Offered in alternate years; offered in 1964-65.)

A course in European painting and sculpture of the eighteenth and early nineteenth centuries — Watteau, Boucher, Fragonard, Gainsborough, Hogarth, Blake, Goya, Tiepolo, and the court art of Versailles.

117. THE ARTS OF EAST ASIA Mr. Thompson

Second Semester. MWF 2:15.

General survey of the fine arts of China, Japan, and Korea, with the aim of acquiring a deeper appreciation of life and thought in the East Asian cultural area.

121. AMERICAN ART Mr. Cikovsky

First Semester. TThS 10. (Offered in alternate years; offered in 1964-65.)

The art of the United States from Colonial times to the present.

134. NINETEENTH CENTURY PAINTING AND SCULPTURE Mr. Cikovsky

First Semester. MWF 10.

The major artistic movements, primarily in France, from 1780 to 1880.

136. TWENTIETH CENTURY ART Mr. Cikovsky

Second Semester. MWF 10.

Major artists and movements in Europe and America from 1880 to the present, with emphasis upon painting and sculpture.

191. RESEARCH IN ART HISTORY Staff

Each Semester. Arranged.

A directed program over three consecutive semesters during which art history majors do research on a particular phase of art history in preparation for an exhibition of works of art which they plan and install. During the Senior year the research program is supplemented by seminar meetings in which emphasis is given to (1) the writing of critical papers on original works of art in local collections and exhibits, and (2) the discussion of the theoretical writings of major art historians and critics.

195. DIRECTED READING

Staff

Each Semester. Arranged. May be repeated once for credit. Permission of chairman required. Course or half-course.

PHILOSOPHY AND THE WORLD OF ART. See Philosophy 140.

PRACTICE OF ART

105. DRAWING

Mr. Grippi

First Semester. MW 2:15-4:05. May be repeated for credit. Primarily for concentrators or by permission of instructor. Half-course.

Practice in drawing and consideration of particular problems of graphic expression.

125. PAINTING

Mr. Grippi

Each Semester. F, 5 hours arranged. May be repeated for credit. Primarily for concentrators or by permission of instructor.

A directed program of creative painting in which various painting problems are discussed and possible solutions are explored.

162. SCULPTURE

Mr. McClain

Each Semester. TTh 1:15-4:05. May be repeated for credit.

A course open primarily to art majors. Individual projects involving various media depending upon the student's interest, experience, and ability.

185. PROBLEMS IN PAINTING, GRAPHIC ARTS, AND SCULPTURE

Staff

Each Semester. 9 hours arranged.

A course open only to Seniors for the purpose of executing individual projects approved by the instructor.

AVAILABLE AT SCRIPPS COLLEGE

II-123. CERAMICS

Mr. Soldner

Year course. Two sections: MWF 1:15-4:05 and TTh 1:15-4:05 and 3 hours arranged. Open to Juniors and Seniors. Prerequisite: II-2 or its equivalent.

II-125. GRAPHICS

Mr. Darrow

Year course. MW 4:15-6:00. 2 units credit each semester. Open to Juniors and Seniors. Prerequisite: II-2 or its equivalent.

II-126. ADVANCED DESIGN

Mr. Darrow, Mrs. Ames

Year course. TTh 1:15-4:05 and 3 hours arranged. Open to Juniors and Seniors. Prerequisite: II-2 or its equivalent.

II-141. ARCHITECTURAL DESIGN AND PLANNING

Mr. Criley

Year course. MWF 1:15-4:05. Prerequisite: II-2 or its equivalent.

Asian Studies

The concentration in Asian Studies is intended to provide a broad background to understanding of the historical civilizations and present problems of the Asian peoples. The concentration is governed by a faculty committee whose members, in 1964-65, are Messrs. Ch'en (chairman), H. B. Smith, and Thompson.

The lower division requirement for concentration is History 60. In the upper division a total of eight courses is required, which must include at least one course in each of three areas: China, Japan, and Southeast Asia. In addition to the Senior comprehensive examination, concentrators in Asian Studies will be examined at the end of the first semester of the Senior year on a list of basic readings furnished by the committee to students beginning their Junior year.

For information on courses in Pomona College (see listing under Chinese Language and Literature) and the other Claremont Colleges which may be taken to meet the concentration requirement, consult any member of the committee.

Astronomy

The major stellar telescopes at the Frank P. Brackett Observatory are a recently rebuilt 12" Newtonian-Cassegrain reflector and a new 6" refractor. Both telescopes are of professional quality possessing features found on the largest research instruments, and are equipped for visual, photographic or photoelectric observations. Additional equipment includes a 4" refractor, a 3" meridian transit, a 13' spectro-helioscope and a Wild T-2 theodolite. Classroom instruction is facilitated by the use of a Spitz planetarium located in the Robert A. Millikan Laboratory.

Students who wish to pursue the study of modern astronomy and those preparing for graduate work in astrophysical science will complete the concentration in physics (astronomy option). Details of the student's program are planned in consultation with Mr. Chambers.

1. ELEMENTARY ASTRONOMY

Mr. Chambers

Each Semester. MWF 11. No prerequisites.

A descriptive, non-mathematical account of the solar system and stellar astronomy. Periodic observation of interesting celestial objects with equipment at the Observatory.

110a,b. GENERAL ASTRONOMY AND ASTROPHYSICS

Mr. Chambers

Arranged. Prerequisites: Physics 100, 101, Mathematics 110, or permission of the instructor. Laboratory fee \$6.00.

An intensive introduction to theoretical and observational astronomy and astrophysics. Laboratory work is an integral part of the course.

199. SELECTED TOPICS

Mr. Chambers

Permission required. Course or half-course. Available to students of proven ability.

Directed research or independent study of astronomical and astrophysical problems.

Botany

BOTANY CONCENTRATION

PLAN I. BOTANY: Lower Division courses: Botany 12, 15, 75; Biology 1 or equivalent. Upper Division courses: Botany 100, 101, 103, 105 (or, for 1965 Seniors, 125), 107, 113, 127. Related fields: Zoology 1 or the equivalent; high school or college chemistry.

PLAN II. BOTANY-BIOLOGY: Lower Division courses: Botany 12, 15, 75; Biology 1 or equivalent. Zoology 51a,b. Upper Division courses: Botany 100, 101, 107, and three courses from 103, 105 (or, for 1965 Seniors, 125), 113, 127. Two of the following courses: Zoology 115, 120, 122, 157; or one of these courses and both 110 and 111. Related field: high school or college chemistry.

Prospective candidates for graduate work should consult the department concerning foreign language requirements for advanced degrees.

Seniors under either concentration program are required either (1) to present a satisfactory paper and to pass an oral examination on the field of the paper, or (2) pass the senior comprehensive examination.

PLANT COLLECTION: All students in botany (either plan) should consult Mr. Phillips concerning the plant collection built up in various courses. This is a graduation requirement, and the collection must be submitted for inspection at the time of the senior comprehensive examination. Credit for individual work on the collection beyond that in formal courses may be had by registration in Botany 75.

AGRICULTURE, FORESTRY, LANDSCAPE ARCHITECTURE: See mimeographed materials at the Botany Department.

Biology 1. HEREDITY AND EVOLUTION *Mr. Phillips and Mr. Hylander*
First Semester. Class and laboratory, TTh 1:15-3:05; field trips arranged. T or Th 3:15-4:05 must be kept free. No prerequisite. Fee \$5.00.

Principles of genetics; evidence of occurrence of evolution and field studies of the mechanism of origin of species.

Biology 3. ELEMENTARY BIOLOGICAL INVESTIGATIONS *Mr. Phillips*
Second Semester. Class and laboratory, TTh 1:15-4:05. No prerequisite. Fee \$5.00.

Selected subjects derived from class experimentation, readings, and discussions, each topic culminating in some original research. Course not intended for students concentrating in the natural sciences.

12. GENERAL BOTANY *Mr. Hylander and Mr. Phillips*
First Semester. Class and laboratory, TTh 1:15-3:05; Th 3:15-4:05 must be kept free. No prerequisite. Fee \$5.00.

Elementary biological principles as illustrated in plants; plant geography, plant structure and physiology.

15. FIELD CLASSIFICATION OF PLANTS *Mr. Hylander*
Second Semester. Class and field laboratory, TTh 1:15-3:30; field trips arranged. No prerequisite. Fee \$5.00.

An elementary discussion and field course in classification of flowering plants, ferns, and cone-bearing trees.

75. **INDIVIDUAL PLANT CLASSIFICATION** *Mr. Hylander*
Each Semester. Appointments and arranged. Field trips arranged. Prerequisite: Botany 15. Course or half-course. May be repeated for credit. May be taken as a summer reading course as Botany 198. Fee \$2.00.
Collection and classification of flowering plants, ferns, and cone-bearing trees.
100. **EVOLUTION OF ALGAE, FUNGI, AND MOSSES** *Mr. Benson*
Second Semester. Class and laboratory, TTh 9-10:50; M 2:15-4:05; arranged field trips. Prerequisite: Botany 12 or equivalent or permission of the instructor. Fee \$5.00. (Offered in alternate years; not offered in 1964-65.)
Physiology, morphology, evolution, and classification of algae, fungi, and bryophytes.
101. **FIELD BOTANY** *Mr. Phillips*
First Semester. Class, MWF 11; laboratory and field trips, F 1:15-4:05 and some longer trips. Prerequisite: Botany 12 and 15 or permission of the instructor. Fee \$5.00. (Offered in alternate years; offered in 1964-65.)
Continuation of Botany 15 and introduction of ecology.
103. **PLANT ECOLOGY** *Mr. Phillips*
Second Semester. Class, MWF 11; laboratory and field trips, F 1:15-4:05 and some longer trips. Prerequisite: Botany 101 or permission of the instructor. Fee \$5.00. (Offered in alternate years; offered in 1964-65.)
The effect of environment upon plants; analysis of plant communities.
105. **PRINCIPLES OF EVOLUTION AND TAXONOMY** *Mr. Benson*
First Semester. Class, MWF 11; laboratory, F 1:15-4:05; field trips arranged. Prerequisite: Botany 15 (or concurrent registration) or Biology 1. Fee \$5.00. (Offered in alternate years; not offered in 1964-65.)
Evolution, relationships, and definition of plant (and animal) groups.
107. **EVOLUTION OF FERNS AND SEED PLANTS** *Mr. Benson*
Second Semester. Class and laboratory, TTh 9-10:50; M 2:15-4:05; arranged field trips. Prerequisite: Botany 12 or permission of the instructor. Fee \$5.00. (Omitted in 1964-65.)
Structure, development, evolution, and relationships of classes and orders of pteridophytes and seed plants.
113. **PLANT PHYSIOLOGY** *Mr. Phillips*
Second Semester. Class, MW 10; laboratory, W 1:15-4:05. Prerequisites: Botany 100 or permission of the instructor; high school or college chemistry. Fee \$5.00. (Offered in alternate years; not offered in 1964-65.)
Physiological processes and principles, including photosynthesis, germination, dormancy, water relations, mineral nutrition, respiration, and growth.
125. **PLANT GEOGRAPHY** *Mr. Hylander*
Second Semester. Class, MW 9; laboratory, M 2:15-4:05. Prerequisite: Botany 12 or permission of the instructor. Fee \$3.00. (Offered in 1964-65.)
A study of the distribution of the natural vegetation of the earth and of its geological history and disturbance by man.
127. **PLANT ANATOMY** *Mr. Carlquist*
First Semester. Class, MW 10; laboratory, W 1:15-4:05. Prerequisite: Botany 12 or equivalent. Fee \$5.00. (Offered in alternate years; not offered in 1964-65.)
Structure, life history, and development of flowering plants.

167. PLANT MICROTECHNIQUE

Mr. Carlquist

First Semester. Class and laboratory, arranged on M 1:15-5:05 and additional individual work. Prerequisite: Botany 12 or the equivalent or permission of the instructor. Half-course. (Offered in alternate years; offered in 1964-65.)

Preparation of microscopic materials for slides of plant structures.

198. SUMMER READING AND RESEARCH

Staff

See Botany 75 and 199.

199. BOTANICAL PROBLEMS

Staff

Each Semester. Arranged. Prerequisite: Permission of the instructor. Course or half-course. May be repeated for credit. May be taken as a summer reading course as Botany 198. Fee \$2.00.

Individual studies: reading, laboratory, research or seminar work in selected topics in any field of botany. The student may anticipate preparation of a thesis for the Master's Degree by beginning a problem or continuing one begun in upper division courses.

Graduate work in Botany is offered through the Claremont Graduate School by the joint staffs of Pomona College, the Rancho Santa Ana Botanic Garden, and the Graduate School. The facilities for research in plant classification are particularly good because the Pomona College Herbarium includes about 315,000 specimens and the herbaria of the College and the Botanic Garden together about 475,000. The libraries of both institutions have been developed most extensively for work in this field.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A wide variety of advanced courses in Botany is available at the Claremont Graduate School to qualified Seniors. Consult the department for a mimeographed list. Written permission of the chairman of the Pomona College department and of the graduate instructor is required for enrollment in graduate courses.

Chemistry

CONCENTRATION REQUIREMENTS: Chemistry 1a,b, 110a,b, 125, 158a,b, 159, 183; Mathematics 3a,b and 30, 31, 32 or 50a,b; Physics 51a,b; German 51a or equivalent. Chemistry 51 may be substituted for Chemistry 1a,b, and Mathematics 3a,b is not required for those who qualify for Mathematics 30 or 50a,b by examination. Junior and Senior majors are expected to attend the weekly departmental seminars which, in 1964-65, will normally be scheduled on Wednesday at 4:15.

PRE-PROFESSIONAL PROGRAM: Students who plan to go to graduate school in chemistry should take Chemistry 184 and 185, Mathematics 110, and Physics 101 in addition to the courses listed above. This program has been approved by the American Chemical Society Committee for Professional Training of Chemists. Students who are interested in biochemistry should consider the NIH program described on pages 94-95.

JOINT CONCENTRATION IN CHEMISTRY AND ZOOLOGY: Requirements: Zoology 51a,b, 120, 122; Chemistry 1a,b, 110a,b, 158a,b; Physics 51a,b; German 51a or equivalent. In addition, two courses elected from the following group: Zoology 110, 111, 112; Chemistry 115, 125, 183, 184; Physics 101.

- 1a,b. GENERAL CHEMISTRY *Mr. R. N. Smith and Staff*
Lectures, MWF 9; laboratory, M,T,Th, or F 1:15-4:05. Fee \$6.00 and deposit \$10.00 each semester.

A beginning course to acquaint the student with the basic principles of chemistry and the reactions of the more common elements. The lectures are integrated with the laboratory work. The first semester laboratory is devoted entirely to quantitative analysis and the second semester laboratory to qualitative analysis.

51. ADVANCED GENERAL CHEMISTRY *Mr. Deutsch*
First Semester. Lectures, MWF 9; laboratory, W and F 1:15-4:05. Fee \$6.00 and deposit \$10.00.

A beginning course open only to well-qualified students (including Freshmen) who satisfactorily pass a written examination over specified topics which will be announced well in advance of the examination. The laboratory will include quantitative and qualitative analysis.

- 110a,b. ORGANIC CHEMISTRY *Mr. Hansch and Mr. Allen*
Lectures, MWF 8; laboratory, W or F 1:15-4:05. Prerequisite: Chemistry 1 or 51. Fee \$6.00 and deposit \$10.00 each semester.

The first semester is devoted to the study of aliphatic compounds and the second semester to aromatic. The laboratory includes both synthesis and qualitative organic analysis.

115. BIOCHEMISTRY *Mr. Gally*
Second Semester. Lectures, MWF 8. Prerequisite: Chemistry 110a,b.

125. ADVANCED ORGANIC LABORATORY *Mr. Hansch*
First Semester. Laboratory, T 1:15-4:05 and Th 8:00-10:50 and 1:15-4:05. Prerequisite: Chemistry 110 and reading knowledge of German. Fee \$6.00 and deposit \$15.00.

Selected organic preparations of an advanced nature, and qualitative organic analysis. Extensive use of the chemical literature is involved.

- 158a,b. PHYSICAL CHEMISTRY *Mr. Deutsch*
Lectures, MWF 11 and one hour arranged. Prerequisites: Chemistry 1 or 51, Physics 51, Mathematics 30, 31, 32 or 50.

The principles of thermodynamics with application to physico-chemical systems, solutions, phase equilibrium, chemical equilibrium, electrochemistry, elementary kinetic theory, chemical kinetics and selected topics.

159. PHYSICAL CHEMISTRY LABORATORY *Mr. Durst*
Second Semester. Laboratory three afternoons arranged. Organizational meeting at 1:15 on first day of classes, and one other group meeting during first week for computer instruction. Prerequisite: Chemistry 1 or 51, and 158 (158b may be taken concurrently). Fee \$6.00 and deposit \$10.00.

183. ADVANCED ANALYTICAL CHEMISTRY *Mr. Durst*
First Semester. Lectures, MWF 9, for first 10 weeks of semester; laboratory three afternoons arranged during last ten weeks of semester. Prerequisite: Chemistry 1 or 51, and 158. Fee \$6.00 and deposit \$10.00.

A survey of modern methods of analysis with the emphasis in the laboratory on instrumental methods of analysis.

184. ADVANCED ORGANIC CHEMISTRY *Mr. Allen*
 Second Semester. Lectures, WF 10 and one lecture arranged. Prerequisite:
 Chemistry 110 and 158.
 Selected topics discussed at an advanced level.
185. ADVANCED INORGANIC CHEMISTRY *Mr. R. N. Smith*
 First Semester. MWF 8. Prerequisite: Chemistry 158.
 Selected topics discussed at an advanced level.
199. SELECTED TOPICS IN CHEMISTRY *Staff*
 Each Semester. Arranged. Permission of instructor required. Course or half-
 course. Open to upper division students with a grade average of B or better
 in Chemistry.
 Directed research or independent study of advanced subjects not treated in other
 courses in the department.

Chinese Language and Literature

The concentration in Chinese Language and Literature consists of a minimum of eight upper division courses, including Chinese 101a,b and History 144a,b. The other four courses may be selected from offerings of this department, or from suitable courses offered in other departments, subject to approval of the Chinese department. A maximum of two of the required courses may be taken in other of the Claremont Colleges, subject to approval of this department.

- 1a-b. ELEMENTARY CHINESE *Mr. Thompson*
 MWFS 10.
 Introduction to the National Language (Mandarin). Stress upon understanding and reproduction of sounds and sentence patterns. Technique and esthetics of writing. Reading of simple texts.
- 51a,b. INTERMEDIATE CHINESE *Mr. Thompson*
 MWFS 8. Prerequisite: Chinese 1a-b or equivalent.
 Continuation of drill in conversational Mandarin. Increased emphasis upon reading and writing in the colloquial style.
- 101a,b. ADVANCED CHINESE *Staff*
 Arranged. Prerequisite: Chinese 51a,b or equivalent.
 Approximately equal emphasis upon furthering ability in the colloquial style, and acquiring the rudiments of the classical written style, or Literary Chinese.
120. MAJOR TRADITIONS OF CHINESE THOUGHT *Mr. Ch'en*
 First Semester. TThS 9.
 Chinese thought, its origins and developments against the background of Chinese historical civilization, and including the world-view of the folk.
140. CHINESE LITERATURE IN TRANSLATION *Mr. Ch'en*
 Second Semester. Arranged.
 The nature of the Chinese literary tradition, its historical development, genres, and major works.

191. SELECTED READINGS IN CHINESE LITERATURE *Mr. Ch'en*
 Each Semester. Arranged. Permission of instructor required. Course or half-course. May be repeated once for credit.
 Selections from classical and colloquial texts.
195. READING AND RESEARCH *Staff*
 Each Semester. Arranged. Permission of instructor required. Course or half-course. May be repeated for credit.
 Introduction to sinology. Reading programs individually arranged.
 THE ARTS OF EAST ASIA. For description see Art 117.
 THE CULTURAL LEGACIES OF EAST ASIA. For description see History 60.
 HISTORY OF CHINA. For description see History 144a,b.
 HISTORY OF JAPAN AND KOREA. For description see History 145.
 HISTORY OF CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT. For description see History 146.

Classics

A coordinated program is offered by the Classics Departments of Pomona College, Scripps College, and Claremont Men's College.

For concentration in Classical languages and literature a student is required to take at least seven courses in Greek and Latin numbered above 100 and to complete a reading list from Greek and Latin authors in class work or independent study. At least two courses in Modern European languages are strongly recommended. Electives in history, art history, philosophy and Continental literature are advisable.

GREEK

- 51a-b. ELEMENTARY GREEK *Mr. Gould and Mr. Carroll*
 MWF 11, and fourth meeting arranged.
 Greek grammar and syntax for beginning students. Selected readings from Classical and New Testament Greek.
101. INTERMEDIATE GREEK *Mr. Carroll*
 First Semester. Arranged. For students with Classics 51 or equivalent.
 Review of grammar and syntax and selected readings from Homer and Plato.
- 182a,b. GREEK READINGS AND COMPOSITION *Mr. Carroll*
 Arranged. Second semester may precede first and either course may be repeated for credit. For students with Classics 101 or equivalent.
 Readings in the orators, historians, philosophers, dramatists and lyric poets.

LATIN

57. INTERMEDIATE LATIN
 First Semester. Arranged. For students with one or two years of secondary school Latin or Scripps Latin I-8. Offered at Pitzer College in 1964-65 as Classics 195.
 Review of grammar and syntax and readings from Cicero, Sallust and Ovid.

181a,b. LATIN READINGS AND COMPOSITION *Mr. Carroll*

Arranged. For students with more than two years of secondary school Latin, Classics 57, or Scripps I-58. Second semester may precede first and either course may be repeated for credit.

Readings in Latin prose and poetry.

195. READING AND RESEARCH

For students who have completed at least one course in classics numbered above 100 and are judged capable of independent study by the department. The course may be taken during the regular term or summer vacation or as part of the Pomona Semester Abroad. Study project must be approved in advance and evaluated at conclusion by the department. May be repeated once for credit.

HEBREW

52a,b. ELEMENTARY BIBLICAL HEBREW *Mr. McBride*

Arranged.

Basic elements of Hebrew grammar and translation of selected Old Testament prose passages.

GREEK AND ROMAN LITERATURE IN TRANSLATION

161. CLASSICAL MYTHOLOGY *Mr. Carroll*

Second Semester. TThS 10. No prerequisite. (Offered in alternate years; not offered in 1964-65.)

The structure and interpretation of Greek and Roman myth. Readings from ancient literature in English translation.

HISTORY OF GREECE. For description see History 101.

HISTORY OF ROME. For description see History 102.

ANCIENT ART. For description see Art 103, 104.

AVAILABLE AT SCRIPPS COLLEGE

I-8. ELEMENTARY LATIN *Mr. Vosburg*
Year course. Arranged. (Offered in alternate years; not offered in 1964-65.)

I-101. THE LATIN LYRIC *Mr. Vosburg*
First Semester. Arranged. (Offered in alternate years; not offered in 1964-65.)

I-102. THE ROMAN LETTER *Mr. Vosburg*
Second Semester. Arranged. (Offered in alternate years; not offered in 1964-65.)

I-104. ROMAN DRAMA *Mr. Palmer*
(Offered in alternate years; offered in 1964-65.)

I-105. LUCRETIVS *Mr. Palmer*
(Offered in alternate years; offered in 1964-65.)

I-108. ADVANCED LATIN PROSE COMPOSITION *Mr. Vosburg*
(Offered in alternate years; not offered in 1964-65.)

I-177. ROMAN HISTORIANS *Mr. Vosburg*
Second Semester. Arranged. (Offered in alternate years; not offered in 1964-65.)

- I-178. THE ROMAN ELEGY *Mr. Palmer*
 (Offered in alternate years; offered in 1964-65.)
- I-190. SENIOR SEMINAR IN LATIN LITERATURE *Mr. Palmer*
 (Offered in alternate years; offered in 1964-65.)

Comparative Literature

CONCENTRATION IN CONTINENTAL LITERATURE. Requirements: eight courses numbered above 100. Four of these courses must be in Continental Literature (in translation), four in European or classic literature in the original language. Electives in English literature and Classics are strongly recommended.

- 181a,b. READINGS IN CONTINENTAL LITERATURE IN TRANSLATION *Mr. Baumann*
 Arranged. May be repeated for credit. Open to Seniors. Others admitted only by permission of the instructor.

A study of outstanding works of Dante, Stendahl, Dostoevsky, Tolstoy, Thomas Mann and others.

AVAILABLE AT SCRIPPS COLLEGE

- I-153a,b. COMPARATIVE LITERATURE II *Mr. Merlan*
 W 4:15-6.

Economics

PREREQUISITES: Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics. A grade of "C" or better in both courses is required for concentration in the field.

CONCENTRATION REQUIREMENTS: Economics 57, 71, 104, 105, 107, and other courses in economics to bring the total of upper division courses to eight. Those graduating in 1965 require only seven upper division courses.

RECOMMENDED PROGRAMS: Economics 51, 52, 57 and 71 should be taken in the Sophomore year, 104, 105 and 107 in the Junior year, and other courses in the field of the student's special interest during the Senior year. In order to achieve a desirable balance between breadth and depth, students should seek a well-integrated selection of courses in the humanities, social sciences, and sciences during each of the four years. Consideration should be given to election of History 118.

Students who plan to attend a graduate school of business or enter a corporation training program should take Economics 110, 111, 150, and a course in expository writing (e.g., English 2).

Pre-legal students should take a full year of Accounting 71 and 150, and 189, and either 198 or 199 in addition to courses required of majors in the Junior year.

Economics-Engineering students should take the 104, 105, 107 sequence before taking courses numbered over 150.

Students who contemplate a career in teaching or research, whether in educational institutions, non-profit research organizations or private industry, should include courses in mathematics and foreign language. Both are often required for advanced degrees in Economics.

THREE-YEAR M.A. PROGRAM: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students to plan, beginning with their Junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS: See Government.

51. ECONOMICS

Staff

First Semester: MWF 8, 9, 10, 11; TThS 9; Group Lecture, Th or F, 1:15.

Second Semester: MWF 9; TThS 9.

An introduction to modern economic society with emphasis on the changing social values and institutions of the American economy, the monetary system, and the theory of income determination.

52. ECONOMICS

Staff

First Semester: MWF 9.

Second Semester: MWF 9, 10, 11; TThS 9. Group Lecture, Th or F, 1:15.

Prerequisite: Economics 51.

A continuation of Economics 51, with emphasis on the theory of market organization, contemporary public policy issues, economic growth and development, and international trade; completes the introduction to the entire field of economics.

57. ECONOMIC STATISTICS

Mr. Palmer

Second Semester. MWF 8; laboratory, T or W 1:15-3:05.

Quantitative methods applied to economic and business problems; descriptive statistics, inference, correlation, index numbers, and the use of time series.

71. ELEMENTARY ACCOUNTING

Mr. Rostvold

First Semester. MWF 8; laboratory, Th or F 1:15-3:05.

Introduction to the theory and practice of accounting in the modern corporation.

ADVANCED COURSES

Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics.

100. CONTEMPORARY PUBLIC POLICY

Mr. Cook

First Semester. TTh 1:15. Half-course. Not open to concentrators in economics. (Omitted in 1964-65.)

An analysis of current public policy issues with emphasis on the economic basis of political decisions within a changing institutional framework.

104. MARKET PRICE THEORY

Mr. Palmer

First Semester. MWF 10.

A study of economic organization, markets and prices, resource use and income division in markets containing various degrees of competition and monopoly.

105. NATIONAL INCOME AND BUSINESS CYCLES

Mr. Rostvold

First Semester. TThS 9.

Conceptual and practical problems in measuring national product; static theory of national income determination; introduction to dynamic macrotheory; theories of crisis, depression, recovery, boom and inflation.

107. MONEY AND BANKING AND PUBLIC FINANCE

Mr. Palmer

Second Semester. TThS 9 and W 1:15.

Principles of money, credit, banking and monetary policy combined with principles of public finance and fiscal policy, including an analysis of the impact of financial policies and institutions on the level of income and prices.

110. PUBLIC POLICIES TOWARD BUSINESS

Mr. Douglass

Second Semester. MWF 10. (Omitted in 1964-65.)

A broad survey of the public policy of maintaining competition and of experience with alternative types of public regulation.

111G. LABOR ECONOMICS

Mr. Sultan

First Semester. MWF 11.

A brief history of organized labor is followed by an analysis of wage policies, labor productivity, collective bargaining, minimum wage legislation, labor monopoly, and current labor legislation.

123. INTERNATIONAL ECONOMICS

Mr. Douglass

First Semester. MWF 8.

An introduction to the theory of international trade and finance and its use in explaining contemporary international economic relations, such as barriers to trade, payments systems, foreign aid and investment, regional integration, and the economic factors in diplomacy.

150. MANAGEMENT AND LEGAL ACCOUNTING

Mr. Rostvold

Second Semester. MWF 9. Prerequisite: Economics 71.

Analysis of the role of accounting as an instrument of managerial control and decision-making. Emphasis is placed upon the legal, tax, and financial aspects of the modern business entity.

153. ECONOMIC DEVELOPMENT

Mr. Douglass

Second Semester. MWF 8.

A study of the processes and problems of promoting economic development in low income countries. Includes discussion of important policy issues such as national economic planning, population control, and international assistance programs.

155. ECONOMIC PROBLEMS OF WESTERN EUROPE

Mr. Jónsson

First Semester. MW 11. Half-course. Course will be concluded prior to the Christmas recess.

Problems of and prospects for Western European economic integration. Includes discussion of internal economic problems of growth, inflation, planning, and the integration of national economic policies, as well as problems of coordinating external trading and investment relationships.

180. DEVELOPMENT OF ECONOMIC IDEAS

Mr. W. B. Smith

Second Semester. MWF 10.

An examination of the major innovations in economic theory from Adam Smith to the present which contribute to an understanding of the field of economics. Emphasis is on the evolution of systems of thought and their impact on modern economic doctrines.

189. ECONOMICS OF TAXATION

Mr. Rostvold

First Semester. MWF 9.

An analysis and evaluation of the effects of governmental taxation and expenditure policies on the American economy.

191. MONETARY THEORY AND POLICY

Staff

Second Semester. MW 11. Half-course. (Omitted in 1964-65.)

The interrelationships of money, income, and prices, with emphasis on the theory of output as a whole and policies designed to maintain high level employment without inflation.

192. INTRODUCTION TO ECONOMETRICS

Staff

Prerequisite: Economics 57 or comparable course in elementary statistics. (Omitted in 1964-65.)

The mathematics of economic model building; structure and characteristics of models; statistical inference applied to problems of parametric evaluation.

195. COMPARATIVE ECONOMIC SYSTEMS

Mr. Cook

Second Semester. TThS 10.

A description and analysis of theories and forms of economic organization and the determinants of economic systems, with major emphasis on the United States and the Soviet Union.

196. REGIONAL ECONOMIC DEVELOPMENT

Mr. Douglass

First Semester. TThS 9.

An analysis of the process and problems of regional economic growth in the United States, with particular attention to Southern California. Includes discussion of workable regional public policies in such fields as land use, recreation, transportation, and water.

198a,b. DIRECTED READING AND RESEARCH

Staff

Arranged. Open to qualified Seniors with the permission of instructor and chairman of the department.

Supervised advanced study in selected fields of economics.

199. SENIOR SEMINAR

Mr. Rostvold

Second Semester. T 1:15-3:05.

Reading and discussion of leading books, new developments in economic theory, current problems, and public policies.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Concentrators who have completed Economics 51 and 52 may elect courses at Claremont Men's College with the permission of their advisers and the chairman of the department.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified Juniors and Seniors with the permission of the chairman of the department and the instructor of the graduate seminar:

207. MATHEMATICS FOR ECONOMICS AND BUSINESS

Mr. Jones

208. FINITE MATHEMATICS

Mr. Warner

210. MONETARY THEORY AND POLICY Mr. Cook
 211. NATIONAL INCOME ANALYSIS Staff
 216. GENERAL EQUILIBRIUM ANALYSIS Mr. Vandermeulen
 217. LINEAR PROGRAMMING Mr. Vandermeulen
 (See Claremont Graduate School catalog for course descriptions and prerequisites.)

Education

A faculty committee on preparation for teaching will assist students in planning for careers in teaching. Members of this committee for 1964-65 are Dean Sanders (chairman), Mr. Faust, and Mr. Meyer. Consult members of the committee for advisement, including information on certification requirements in California and other states. In addition, appointments for conferences with the following members of the Claremont Graduate School Faculty, whose offices are in Harper Hall, may be arranged by calling the Internship Secretary, Ext. 2211: Elementary — Mr. Malcolm P. Douglass and Mr. William R. Fielder; Secondary and Junior College — Mr. Arthur R. King, Jr., and Mr. John A. Brownell.

155. CONTEMPORARY PROBLEMS OF EDUCATION Mr. King
 First Semester. T 4:15-6:05.

The following topics will be discussed in this course: the school as a social institution; the school and community structure; conflicts regarding the place of the school in American society.

170. INTRODUCTION TO PUBLIC SCHOOL TEACHING Mr. Fielder
 Second Semester. F 1:15-4:00.

This course is planned for Senior students considering a teaching career in elementary or secondary schools. Emphasis is placed upon developing an understanding of the role of public education in contemporary society. Attention is given to the curriculum of the elementary and secondary school, issues and problems of instruction, and an evaluation of current trends and practices in public education. An extensive school and classroom observation program is provided as part of the course. It may comprise the first part of the Claremont Graduate School Teaching Internship Programs.

English

English 1 or its equivalent is the only prerequisite for literature courses. English 64 is prerequisite for upper-division courses in writing. Students intending to concentrate in English should take History 1a,b. Prospective literature majors must take English 51 and 52; prospective writing majors must take English 51 and 64; prospective drama majors must take English 51 and Drama 82. Drama majors are also urged to take Art 2, Music 53, 54, and a semester of Modern Dance during their first two years.

A reading knowledge of at least one language and literature other than English, as well as high school preparation in Latin, is strongly recommended. In most graduate schools, candidates for the degree of Doctor of Philosophy are required to have a reading knowledge of *two* foreign languages.

CONCENTRATION WITH EMPHASIS ON LITERATURE

Five upper division courses, distributed as below, and English 190 (Senior Seminar) or 197 (Senior Thesis).

Group I: English 131, 132, 133, 161 (one course)

Group II: English 134, 135, 160 (one course)

Group III: English 125, 126 (one course)

Group IV: English 153, 155a or 155b, 156 (two courses)

CONCENTRATION WITH EMPHASIS ON WRITING

Five upper division courses, as above, English 181, and two semesters of English 183. One of these must be taken in the Senior year.

CONCENTRATION WITH EMPHASIS ON DRAMA

Drama 113 (two semesters), Drama 108a,b, and Drama 150a,b.

Three courses chosen from English 155a,b, 161, 164.

JOINT CONCENTRATIONS: Consult the chairman of the department for information about joint concentrations in English and Philosophy, English and History, and American Studies.

Students are required to read, from a list of major works, books not covered in the courses which they have elected. This supplementary reading will be included in the comprehensive examination.

1. THE WESTERN LITERARY TRADITION *Mr. Barnes and Staff*

First Semester (eight sections): MWF 9, 11; MWF 10 (2 sections); MW 1:15-2:30; 2:40-3:55; TTh 1:15-2:30; T 1:15-4:00.

Second Semester (eight sections): MWF 8, 9; MWF 10 (2 sections); MW 1:15-2:30; 2:40-3:55; TThS 10; TTh 1:15-2:30.

Reading: great works of western literature from classical times to the present. Writing: critical papers on literary problems. Students who need further training in writing are advised to enroll for English 2.

2. EXPOSITORY WRITING *Mr. Mulhauser and Mr. Pinney*

Each Semester: TTh 9 and individual conferences.

Practice in various types of exposition, with emphasis on organization, coherence, clarity, and accuracy of diction.

50. GREAT AUTHORS *Mr. Wine*

Second Semester. MWF 11. For students who do not intend to concentrate in English.

A critical study of great writers representing major periods and forms of literature in English.

51. MAJOR ENGLISH POETS *Mr. Bracher and Mr. Holmes*

First Semester. MWF 10. For students who intend to concentrate in English.

Poets studied as representative of particular periods of English literary history: Chaucer, Milton, Pope, Wordsworth, Arnold, Eliot.

52. LITERARY ANALYSIS *Mr. Barnes, Mr. Frazer, Mr. Mulhauser*
 Second Semester (three sections). MW 1:15-2:30; 2:40-3:55; TTh 2:40-3:55.
 For Freshmen and Sophomores who intend to concentrate in English.
 Practice in the close reading and analysis of major literary forms.

58. INTRODUCTION TO PROSE FICTION *Mr. Beatty and Mr. Carroll*
 Each Semester. MWF 9.
 A survey of important works in prose fiction with emphasis upon selected novels — English, American, and continental — from the eighteenth century to the present.

64. NARRATIVE AND DESCRIPTIVE WRITING *Mr. Barnes and Mr. Weismiller*
 Each Semester: TThS 9.
 Enrollment limited to 20 students each semester. This course is prerequisite for English 181 and 183.
 The basic creative problems of narration and description.

ADVANCED COURSES

125. AMERICAN LITERATURE I *Mrs. Jordan*
 Second Semester. TThS 9.
 Selected major figures from the beginnings, with emphasis on the nineteenth century through Poe and Hawthorne.

126. AMERICAN LITERATURE II *Mr. Holmes*
 First Semester. TThS 9.
 The latter half of the nineteenth century: Melville, Whitman, Emily Dickinson, Twain, James, and Crane or Dreiser.

127. AMERICAN LITERATURE III *Mr. Holmes*
 Second Semester. TThS 9.
 The first half of the twentieth century: Stein, Pound, Eliot, Frost, O'Neill, Anderson, Hemingway, Fitzgerald, Dos Passos, and Faulkner.

131. TUDOR POETRY AND PROSE *Mr. Barnes*
 First Semester. MWF 10.
 The major literary themes and forms of the English Renaissance as exemplified in the works of the great writers of the Tudor period.

132. SEVENTEENTH CENTURY POETRY AND PROSE *Mrs. Jordan*
 Second Semester. MWF 9.
 A study of the new intellectual milieu and its reflection in the poetry and prose from Bacon and Donne to Boyle and Dryden.

133. EIGHTEENTH CENTURY POETRY AND PROSE *Mr. Bracher*
 Second Semester. MWF 2:15. (Omitted in 1964-65; offered in 1965-66.)
 Selected authors from Swift to Burns, studied in relation to the social and intellectual history of the period.

134. THE ROMANTIC POETS *Mr. Mulhauser*
 First Semester. MW 1:15-3:05.
 The major poets of the Romantic period.

135. VICTORIAN LITERATURE

Mr. Mulhauser

Second Semester. MWF 11.

An intensive study of the major poets and prose-writers of the Victorian period.

153. CHAUCER

Mr. Barnes

Second Semester. MWF 10.

A close study of Chaucer's poetry in its medieval (literary, linguistic, social, and philosophical) setting.

155a,b. SHAKESPEARE

Mr. Strathmann

MWF 11.

A study of the principal plays and of Shakespeare's career as a dramatist. First semester, mainly comedies and histories; second semester, mainly tragedies.

156. MILTON

Mr. Weismiller

Second Semester. MWF 10.

A study of the poems and selected prose works, emphasizing the literary and intellectual background of Milton's work.

158. JOYCE

Mr. Frazer and Mr. Barnes

Second Semester. MWF 9. (Offered in alternate years; offered in 1964-65.)

Close study of *Dubliners*, *A Portrait of the Artist*, *Ulysses*, and *Finnegans Wake*.

160. THE ENGLISH NOVEL

Mr. Pinney

First Semester. TTh 1:15-2:30.

A critical and historical study of the themes and methods of the novel, based mainly on the novelists of the nineteenth century from Scott through James and Conrad.

161. MAJOR BRITISH DRAMATISTS

Mr. Wine

First Semester. F 1:15-3:05 and arranged.

Shakespeare's contemporaries (Marlowe, Jonson, Webster, Ford) and the chief playwrights of the Restoration and eighteenth century (Dryden, Congreve, Goldsmith, and Sheridan).

162. CONTEMPORARY FICTION

Mr. Frazer

Second Semester. MWF 10. (Offered in alternate years; not offered in 1964-65.)

A survey of British and American fiction (except that of James Joyce) since 1920, with particular emphasis on writers since World War II.

163. CONTEMPORARY POETS

Mr. Weismiller

First Semester. MWF 10.

Poets of the twentieth century, Gerard Manley Hopkins to the present, studied in the light of the great poetic tradition.

164. CONTEMPORARY DRAMATISTS

Mr. Wine

Second Semester. TTh 1:15-2:30.

The revolt against existing dramatic forms and against the social and moral standards of the times in the drama from Ibsen to Ionesco.

171. INTRODUCTION TO LINGUISTICS

Mr. Bracher

First Semester. MWF 9.

A survey of the principal areas of linguistic study, with illustrations drawn primarily from the history of English. Recommended for prospective teachers of English and other languages.

181. THE SHORT STORY

Mr. Frazer

First Semester. Arranged. Prerequisite: English 64 and permission of the instructor. Enrollment limited to 20 students.

Study of the short story form and practice in the writing of short fiction.

183. ADVANCED CREATIVE WRITING

Mr. Weismiller

Each Semester: T 1:15-3:05. Prerequisites: English 64, and English 181 or permission of the instructor. Half-course. May be repeated for credit. Enrollment limited to 20 students.

Supervised practice in the forms of creative writing, selected according to the needs and abilities of the students.

190. SENIOR SEMINAR

Staff

First Semester. Arranged. Permission of the instructor required. Enrollment limited to 12 Seniors. (Omitted in 1964-65.)

Topics and instructors are changed each year.

194. BACKGROUNDS OF ENGLISH LITERATURE

Staff

Offered only to concentrators in English accepted for the Pomona Semester Abroad. Consult department chairman.

195. DIRECTED READING

Staff

Arranged. Permission of department chairman required. Individual programs of study for specially qualified students.

197. SENIOR THESIS

Mr. Carroll

First Semester. Arranged. Individually planned reading programs directed toward the writing of a Senior thesis.

DRAMATICS

17. INTRODUCTION TO THE THEATRE

Mr. Miller

First Semester. MWF 10. (Omitted in 1964-65.)

A comprehensive analysis of the theatre medium, its relationship to dramatic literature, and its relationship to the other arts.

82. INTRODUCTION TO ACTING

Mr. Miller

First Semester. W 2:15-4.

Learning to use the voice and body as instruments; learning the fundamental requirements of stage movement. Introduction to acting theories and to the problems of characterization.

108a,b. HISTORY OF THE THEATRE

Mr. Miller

MWF 10. (Offered in alternate years; offered in 1964-65.)

An historical survey of world drama and theatre practices from Greek antiquity to modern times. First semester: ancient Greece through the English Renaissance. Second semester: French Classicism through modern times.

113. PROBLEMS IN THEATRICAL PRODUCTION

Mr. Miller

Each Semester. Arranged. Half-course. May be repeated once for credit.

An investigation of the practical problems involved in staging the plays chosen for production each year. Students enrolled in the course must participate, in some capacity, in the production of the plays.

150a,b. DRAMA WORKSHOP

Mr. Miller

TTh 2:40-3:55. Prerequisite: Drama 82, or permission of the instructor.

Theory and practice of writing, acting, and directing through class exercises and the production of student-written and professional one-act plays. Students enrolled in this course must participate, in some capacity, in all productions.

194. READINGS AND RESEARCH IN DRAMA

Staff

Arranged.

Reading and research programs for students who are capable of independent study in fields not included in regularly scheduled courses.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

The list of courses available in other Claremont Colleges consists mainly of courses which do not duplicate those offered also in Pomona College. For additional courses open for intercollegiate registration consult the mimeographed list used for preregistration or the catalogs of The Claremont Colleges. If a course duplicates one offered in Pomona, credit will be allowed for either the Pomona course or the course in one of the other Claremont Colleges, but not for both.

CLAREMONT MEN'S COLLEGE

H135. MEDIEVAL LITERATURE I, II

Mr. Poynter

Year course. First Semester: TTh 1; Second Semester: TThS 9.

H137. ENGLISH SATIRE. Second Semester. MWF 10.

Mr. Elsbee

H138. THE NOVEL AND SOCIETY. First Semester. MWF 10.

Mr. Elsbee

H181. TRAGEDY AND COMEDY. First Semester. TThS 10.

Mr. Quinones

SCRIPPS COLLEGE

I-100. MARK TWAIN. First Semester. MWF 11.

Mr. Foster

Geology

Outstanding equipment includes Leitz and Zeiss research petrographic microscopes, 13 of which are fitted with universal stages; ore, phase contrast, stereoscopic, and stereopolarizing microscopes are available also. Facilities are provided for X-ray diffraction, X-ray fluorescence and emission spectography, and differential thermal analysis. The department has a Worden Master gravity meter, an Askania torsion magnetometer, and a Clary DE-60 digital computer. Teleprocessing equipment enables students to use the IBM 7094 at Western Data Processing Center. Surveying equipment includes Kern field instruments and a Zeiss stereotape. The geology library is excellent. Students are encouraged to use these facilities for their own projects.

CONCENTRATION REQUIREMENTS: Mathematics 3a,b, Chemistry 1a,b, or 51, Physics 2a,b or 51a,b, and Geology 103, 106, 153a, and 157 or 159.

PRE-PROFESSIONAL PROGRAM: In addition to the formal requirements given above, a student who expects to go on to graduate work in geology should plan to do additional studies in the geology library and laboratories, and in the field. In so far as his program permits, he should endeavor to include Chemistry 158, Mathematics 30, 31, 32, or 50, and acquire a reading knowledge of French, German, or Russian.

1. INTRODUCTION TO GEOLOGY *Mr. McIntyre and Mr. Zenger*
Each Semester. MWF 10. No prerequisites. Fee \$6.00. Each week students are expected to work two to three hours in the laboratory, at times to suit their convenience.
53. GEOLOGY OF NORTH AMERICA *Mr. Zenger*
Second Semester. Lectures, MWF 10; laboratory, W 1:15-4:05. Prerequisite: Geology 1. Fee \$6.00.
- 103a,b. CRYSTALLOGRAPHY AND MINERALOGY *Mr. McIntyre*
Lectures, WF 11; laboratory, TF 1:15-4:05. Fee \$6.00 each semester.
- 106a,b. STRUCTURAL AND FIELD GEOLOGY *Staff*
Lectures, TTh 10; laboratory, Th 1:15-4:05 (first semester only). Saturdays and spring vacation must be kept free for field work. Prerequisite: Geology 53 completed or in progress. Fee \$6.00 each semester.
- 153a,b. PETROLOGY *Mr. Baird and Mr. Zenger*
Lectures, TTh 9; laboratory, M 2:15-5:05; W 1:15-4:05. Prerequisite: Geology 103. Fee \$6.00 each semester.
157. PALEONTOLOGY *Mr. Zenger*
First Semester. Lectures, MW 9; laboratory, T 1:15-4:05 and arranged. Prerequisite: Geology 1 or Zoology 51 or permission of the instructor. Fee \$6.00.
159. STRATIGRAPHY *Mr. Zenger*
Second Semester. Lectures, MW 9; laboratory, T 1:15-4:05 and arranged. Prerequisite: Geology 53. Fee \$6.00.
181. DESIGN AND ANALYSIS OF GEOLOGICAL EXPERIMENTS *Mr. McIntyre*
Second Semester. Lectures, TTh 10 and arranged. (Omitted in 1964-65; offered in 1965-66.)
Includes the programming and use of IBM 7094 and other computers for solving geological problems.
199. SELECTED TOPICS IN GEOLOGY *Staff*
Arranged. May be repeated for credit. Prerequisite: departmental approval. Fee \$6.00.
Special work in certain advanced subjects not treated in other courses of the department is available to students of proven ability.

German Language and Literature

A program of concentration in German consists of a minimum of six courses numbered above 100 and two additional courses in German or in a related field selected according to the student's needs and interests.

LANGUAGE LABORATORY: For first year students, language laboratory periods are included within the five-hour schedule. Second year students are required to take one 45-minute laboratory period per week in addition to the scheduled three meetings. Second year students should sign up for the laboratory period of their choice at Room 13, Holmes Hall, on Thursday, Friday and Saturday of the opening week. Laboratory fee: \$2.00 per semester.

1a-b. ELEMENTARY GERMAN

Staff

MTWThF 8, 9, 10 (two sections each).

Emphasis on the acquisition of basic reading skills and conversation.

51a,b. INTERMEDIATE GERMAN

Staff

MWF 9, 10 (two sections), 11 (two sections). Prerequisite: German 1a-b or equivalent.

Intensive reading of selected German works. Continued practice in German conversation.

81. ADVANCED GERMAN

Staff

Programs arranged according to the needs of the students. Open only to students on the Semester Abroad Program. Prerequisite: German 51a.

Advanced reading and composition.

102. ADVANCED CONVERSATION AND COMPOSITION

Mr. Brueckner

Second Semester. MWF 8. Prerequisite: German 51b, the equivalent, or consent of the instructor.

Practice in expository writing, conversation, pronunciation, and rapid reading.

109a,b. GERMAN LITERATURE OF THE NINETEENTH CENTURY

Mr. Lindberg and Mr. Brueckner

MWF 9. Prerequisite: German 51b or equivalent. (Offered in alternate years; offered in 1964-65.)

Reading and interpretation of plays, poetry, and narrative prose which reflect the development of German literature from Romanticism to the emergence of Naturalism.

113a,b. GERMAN CLASSICS OF THE EIGHTEENTH CENTURY

Mr. Lindberg

MWF 9. Prerequisite: German 51b or equivalent. (Offered in alternate years; not offered in 1964-65.)

A study of German literature from Enlightenment through Storm and Stress to the ideal of Humanitaet, as illustrated by the major works of Lessing, Schiller, Goethe, and others.

158. MODERN GERMAN LITERATURE: READINGS AND INTERPRETATION

Mr. Brueckner

Second Semester. MWF 10. Prerequisite: German 51b or equivalent. (Omitted in 1964-65.)

A course devoted to the study of modern German drama, poetry, and prose. Selections include works of Brecht, George, Hauptmann, Hesse, Hofmannsthal, Kafka, Mann and Rilke.

160a,b. SURVEY OF GERMAN LITERATURE
MWF 11.*Mr. Baumann*

The development of German literature from earliest times to the end of the nineteenth century.

190a,b. READING AND RESEARCH

Staff

Arranged. Permission of the chairman required.

Government

GENERAL REQUIREMENT: Government 1 is normally prerequisite for all advanced courses, but the department invites students who have had considerable work elsewhere in the social sciences to confer with staff members regarding enrollment in any course desired.

LOWER DIVISION PREREQUISITES FOR CONCENTRATION: The following courses should be completed by the end of the Sophomore year: History 1a,b; Government 1; Economics 51. The introductory course in Sociology or Anthropology is strongly recommended and also the elementary course in statistics and a semester of accounting.

PROGRAM OF CONCENTRATION: A minimum of six upper division courses, each student's program being arranged in consultation with the departmental staff, but including in every case Government 197 and completion of an acceptable Senior thesis. A reading and speaking knowledge of at least one modern foreign language is strongly advised, particularly for students having any intention of seeking positions in foreign service or of engaging in graduate study.

Pre-legal students majoring in Government should strive for breadth and balance in their programs including, however, in each case the course in Constitutional Law and at least a semester's work in accounting.

HONORS STUDY: Students interested in undertaking a program of honors study under the general plan approved by the faculty are invited to formulate a draft proposal and discuss it with the staff of the department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

The Departments of Government and Economics cooperate in offering introductory courses, Government 1 and Economics 51, designed to give the student an understanding of America's political and economic institutions. Although each course meets one of the distribution requirements for graduation, the combination of two courses is recommended for a better comprehension of basic American institutions. For descriptions of each course, see the departmental offerings.

1. POLITICAL BEHAVIOR AND INSTITUTIONS

Staff

First Semester: MWF 8, 9, 10; TTs 10.

Second Semester: MWF 8, 9, 10.

Normally prerequisite to all upper division courses in Government. Satisfies State requirement in American Institutions.

The study of basic governmental institutions and theories about government. Politics as an aspect of human behavior in domestic and foreign affairs both in the United States and abroad.

53. CONTEMPORARY POLITICS

Staff

Second Semester. WF 1:15. Half-course.

Analysis of crucial issues of the day in national and international affairs. Extensive use of representative periodicals, both domestic and foreign.

55. POLITICAL GEOGRAPHY AND CONTEMPORARY POLITICS

Mr. Vieg

(Omitted in 1964-65.)

Study of the fundamentals of political and economic geography followed by examination of selected issues in national and international politics.

125. COMPARATIVE POLITICAL SYSTEMS

Mr. Armacost

Second Semester. MWF 9.

Comparative analysis of political forces and governmental institutions mainly in Britain, France, Germany, and the Soviet Union.

126G. THE COMMUNIST WORLD I

Mr. Neal

First Semester. MWF 9. (See also companion course 127G at Claremont Men's College, Second Semester.)

The domestic and foreign policies of the Soviet Union and of other Communist countries in Eastern Europe since World War II.

127. ASIATIC GOVERNMENT AND POLITICS

Mr. Vieg

First Semester. MWF 8. (Omitted in 1964-65.)

Analysis of the political systems of the nations of contemporary Asia from the standpoint of the struggle between tradition and modernity, with emphasis on Japan, China, India, Pakistan and Indonesia.

131. PARTIES, PRESSURE GROUPS, AND PUBLIC OPINION

Mr. Vieg

First Semester. MWF 11.

The role of parties, interest groups, propagandists and voters in the American electoral and legislative processes.

136. POLITICAL BIOGRAPHY

Mr. Vieg

Second Semester. TTh 1:15-2:30.

Analysis of the nature and problems of leadership as reflected in the lives and letters of selected statesmen, American and foreign, Oriental as well as Occidental.

140G. PUBLIC ADMINISTRATION AND PUBLIC POLICY

Mr. Blair

Second Semester. MWF 11.

A study of the role of administrative officials in the making of public policies and the management of the public business of the national, state and local levels.

151. INTRODUCTION TO INTERNATIONAL RELATIONS

Mr. Armacost

Second Semester. MWF 10.

Geographical and historical determinants of the contemporary state system and the current struggle for power and security. Examination of attempts to achieve world order through understanding, organization and law.

155. FOUNDATIONS OF AMERICAN FOREIGN POLICY

Mr. Armacost

First Semester. TThS 9.

The constitutional bases, the crucial periods, and the development of the underlying principles of U. S. foreign policy, with particular attention to the formulation and implementation of contemporary policy.

156. THE POLITICS OF MODERNIZATION

Mr. Armacost

First Semester. MWF 9.

A comparative study of cultural, economic, political, and ideological forces important in the development of new states. Emphasis on problems of nationalism, planning, group rivalry, and recruitment of political leadership in selected non-Western areas.

161. CONSTITUTIONAL LAW

Mr. Flournoy

First Semester. MWF 10.

Nature and extent of constitutional power; separation of powers doctrine; federal-state relations; power of Congress and the Presidency; political and civil rights; role of law in American society.

162. LAW AND LEGISLATION

Mr. Flournoy

(Omitted in 1964-65.)

Analysis of the role of law in society, of the legislative process in national and state government, and of the relations between Congress and the Supreme Court.

171. POLITICAL THEORY

Mr. McDonald

First Semester. TTh 2:40-3:55.

The major political theories and theorists of the Western heritage and their relevance to political values and institutions, primarily in Europe and America.

191,192. READINGS AND RESEARCH IN GOVERNMENT

Staff

Each Semester. Arranged. Open only to students who have clearly demonstrated ability to work under self-direction. Course or half-course.

Tutorial programs of independent (including honors) study.

193,194. READINGS AND RESEARCH IN INTERNATIONAL RELATIONS

Staff

Each Semester. Arranged. Open only to students who have clearly demonstrated ability to work under self-direction. Course or half-course.

Tutorial programs of independent (including honors) study.

195. SENIOR SEMINAR IN INTERNATIONAL RELATIONS

Mr. Armacost

Second Semester. W 2:15-4:05 and arranged. Open to non-concentrators by permission of instructor.

Integration of historical, economic and political aspects of the field, with emphasis upon theory.

197. SENIOR SEMINAR IN GOVERNMENT

Mr. McDonald

Second Semester. M 2:15-4:05. Open to non-concentrators by permission of instructor.

Analysis of major trends and emerging problems in politics, law and administration through review of current books, together with writing and defense of Senior Theses.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

P123. LATIN AMERICAN POLITICS. First Semester. MWF 8.

Mr. Stokes

127G. THE COMMUNIST WORLD II. Second Semester. MWF 9.

Mr. Neal

(See Pomona's Government 126G, THE COMMUNIST WORLD I, First Semester.)

P131. BUSINESS LAW. Arranged.	<i>Staff</i>
P169. STATE AND LOCAL POLITICS. Second Semester. MWF 10.	<i>Mr. Baker</i>
P170. THEORIES OF AMERICAN DEMOCRACY. Second Semester. TThS 9.	<i>Mr. Diamond</i>
P174. CONTEMPORARY CONSTITUTIONAL PROBLEMS. Second Semester. TTh 1.	<i>Mr. Fisk</i>

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A number of graduate courses and seminars are open to qualified Seniors with the consent of the instructor and the approval of the chairman of the department. See the Claremont Graduate School catalog for course descriptions and prerequisites.

WASHINGTON SEMESTER PROGRAM

A limited number of Pomona students are able to participate in the Washington Semester program conducted by American University, which affords the opportunity of intensive study of the governmental process in Washington, D. C. At American University's invitation, Pomona College is entitled to a quota of four students annually during the fall semester. The major advantage offered by the program is the opportunity to witness personally the operation of the government in its many aspects, as well as to participate in the Washington Semester Seminars, which bring leading officials of the legislative, executive and judicial branches of the government together for discussions with the participating students. The selection of the four Pomona students who shall represent the college is made on a competitive basis by the Faculty Selection Committee, with preference given to Juniors and those whose academic programs are most suitably supplemented by the opportunities afforded by participation in the Washington Semester program. Under a cooperative agreement, tuition is paid in the regular manner to Pomona College while charges for board and room are paid in Washington, D. C. Candidates selected defray their own costs for travel and other expenses. Students interested in the program are invited to consult with the chairman of the Department of Government, who serves as local representative.

History

Courses in history are designed to interest students in all areas of study. Only a few are intended specifically for concentrators in history. History 1, or its equivalent, is the usual preparation for other courses in history. Sophomores are welcome in most courses, particularly in History 100.

CONCENTRATION: The courses in a program of concentration in history should follow a coherent pattern and be planned carefully in consultation with a member of the History Department to provide sound preparation for the comprehensive examinations of the Senior year. The first examination paper will concern the method and philosophy of history and some comparative interpretation of several historical areas. The other two papers will deal with areas chosen by each student from the following: Ancient History; Europe, 312-1648; Europe since 1648; the United States; Latin America; the Far East. A fuller explanation of these examinations and a reading list may be obtained from members of the Department. Ordinarily the program will include: History 1a,b (or their equivalent); History 100a,b (or other work in British

and/or United States history); History 140; at least four additional courses in history or a closely related subject. Since the areas are broad, equal familiarity with all aspects is not expected. The Department believes that independent reading is an important supplement to formal courses in preparation for the comprehensive examinations. Each concentrator will also write a "Major Essay" of satisfactory quality; mimeographed instructions will be available in the Junior year.

Students considering graduate study should remember that a reading knowledge of one foreign language is normally required for the M.A. and of two foreign languages for the Ph.D. degree.

HONORS PROGRAM: The department urges qualified students to undertake programs of Honors Study. These involve independent study under the direction of a member of the department in place of part of the usual program of formal courses.

JOINT CONCENTRATIONS: Consult the chairman of the department for information about joint concentrations in History and English, Government, Philosophy, or Religion.

AMERICAN STUDIES: The American Studies program is an interdisciplinary plan of study, directed by members of the departments of History and English. Students will take eight appropriate upper division courses in the fields of History and English. Among these courses will be the intercollegiate seminar, History 180, which must be taken in both Junior and Senior years.

1a,b. **WESTERN CIVILIZATION: ITS HISTORY AND WORLD CONTEXT** *Staff*
Lectures for entire class, TTh 10, and sections of two hours each arranged.

A survey of the political, religious, intellectual, and economic development of Europe, the expansion of European influence over the world, and the consequent interaction of civilizations. Special attention will be given to Western contacts with Asia. First Semester: from Ancient Greece to the end of the Middle Ages. Second Semester: from the Renaissance to the present.

60. **THE CULTURAL LEGACIES OF EAST ASIA** *Mr. Ch'en*
First Semester. TThS 10.

A survey of the humanistic achievements of China and India, and their diffusion in other lands in East Asia.

100a,b. **ENGLAND AND THE UNITED STATES** *Mrs. Davies and Mr. Kemble*
MWF 11. Open to Sophomores. 100b satisfies the State requirement in American History.

The political, economic, and cultural evolution of Great Britain and the United States with some attention to the Empire and the Commonwealth.

101. **GREECE** *Mr. Carroll*
Second Semester. MWF 9.
(Offered in alternate years; not offered in 1964-65.)

A survey from the prehistoric age to the Roman conquest with special emphasis on the city-state and democracy.

102. **ROME** *Mr. Carroll*
Second Semester. MWF 9.
(Offered in alternate years; offered in 1964-65.)

The Republic and the Empire from the founding of the city to the sixth Century A.D.

103. THE MIDDLE AGES

Mr. Learnihan

First Semester. TThS 9.

(Offered in alternate years; not offered in 1964-65.)

A survey of political, intellectual, and religious developments during the transition from Mediterranean to European civilization, from the sixth to the fourteenth century.

104. MEDIEVAL INSTITUTIONS

Mr. Learnihan

First Semester. TThS 9. (Omitted in 1964-65.)

A study in some depth of selected political, intellectual, and religious institutions of the Middle Ages.

106. TUDOR AND STUART ENGLAND

Mr. Gleason

Second Semester. MWF 2:15. (Omitted in 1964-65.)

The major political, religious, economic, and intellectual achievement of Tudor and Stuart England. The course is designed for concentrators in English as well as for those in History.

107. GREAT BRITAIN, 1760-1960

Mr. Gleason

Second Semester. MWF 8. (Omitted in 1964-65.)

The development of British society in the two centuries since the accession of George III. The period since 1945 is given special attention. The course is designed for concentrators in English as well as for those in History.

108. THE RENAISSANCE AND REFORMATION

Mrs. Davies

First Semester. MW 2:15-3:30.

(Offered in alternate years; offered in 1964-65.)

A study of the transition from medieval to modern Europe; from the fourteenth to the seventeenth century.

110. REVOLUTIONARY EUROPE

Mr. Poland

Second Semester. TThS 8.

(Offered in alternate years; not offered in 1964-65.)

A survey of political, economic, and intellectual developments in Europe between 1700 and 1870, emphasizing the decline of the old regime, the revolutionary upheavals between 1789 and 1848, and the nineteenth century consolidation of nation states.

113. DIPLOMACY AND STATECRAFT, 1870-1960

Mr. Meyer

First Semester. MWF 10.

The international policies of the great powers: their motivations, their major spokesmen, and their results seen in relation to major issues of world history during the last century.

114. RUSSIA

Mr. Poland

First Semester. TThS 8. (Omitted in 1964-65.)

A study of the growth of Russia, emphasizing the political, economic, social, and intellectual development from Peter the Great to the outbreak of the Revolution, the course of the Revolution, and the development of Soviet society since 1921.

115. THE FRENCH REVOLUTION

Mr. Poland

Second Semester. TThS 8. (Omitted in 1964-65.)

A study of eighteenth century life, with special attention to the institutions of the old regime, the Enlightenment and programs of reform, and the French Revolution of 1789.

116. INTELLECTUAL HISTORY OF ANCIENT AND MEDIEVAL EUROPE *Mr. Learnihan*
 Second Semester. TThS 9.
 (Offered in alternate years; not offered in 1964-65.)
 A study of the formation of the ideas and ideals significant in politics, religion, and literature from classical times to the end of the Middle Ages.
117. INTELLECTUAL HISTORY OF MODERN EUROPE *Mr. Learnihan*
 Second Semester. TThS 9.
 (Offered in alternate years; offered in 1964-65.)
 A study of the formation of the ideas and ideals significant in politics, religion, and science from Machiavelli to Marx.
118. ECONOMIC GROWTH IN MODERN EUROPE *Mrs. Davies*
 Second Semester. MW 2:15-3:30.
 (Offered in alternate years; offered in 1964-65.)
 Problems of economic development from the first Industrial Revolution to the twentieth century, with special reference to Western Europe.
119. EUROPE IN TRANSITION, 1890-1935 *Mr. Meyer*
 Second Semester. MWF 10.
 (Offered in alternate years; not offered in 1964-65.)
 A cultural and ideological analysis of Western history in a crucial period: from the confident culmination of nineteenth century imperialism to the twentieth century conflict between individualism and totalitarianism.
120. TWENTIETH CENTURY GERMANY *Mr. Meyer*
 Second Semester. MWF 10.
 (Offered in alternate years; offered in 1964-65.)
 Politics, society, and culture of the German nation from Bismarck through Adenauer, viewed in the context of changing world relationships.
121. AMERICAN CIVILIZATION, 1815-1900 *Mr. Kemble*
 Second Semester. MWF 9. (Omitted in 1964-65.)
 A study of significant aspects of the political, economic, and cultural history of the United States in the nineteenth century as reflected in a series of selected movements, institutions, events and personalities.
- 123G. THE AMERICAN NATION, 1763-1815 *Mr. Adair*
 Second Semester. Time to be announced.
 A study of the achievement of independence by the United States and the establishment of the republic.
- 124G. THE UNITED STATES IN THE TWENTIETH CENTURY *Mr. Niven and Mr. Olin*
 Second Semester. MWF 11.
 The political, economic, and social institutions of the period, 1900-1946, as reflected in the Square Deal, the New Freedom, Normalcy, and the New Deal.
126. CALIFORNIA *Mr. Kemble*
 Second Semester. MWF 2:15.
 (Offered in alternate years; offered in 1964-65.)
 The economic, cultural, and political development of the region from its discovery to the present.

127. AMERICAN FOREIGN RELATIONS, 1776-1898 *Mr. Campbell*
First Semester. W 1:15-3:45. (Omitted in 1964-65.)

The diplomacy of the Revolution, the War of 1812, the Civil War, and the emergence of the United States as a world power.

130. MODERN MARITIME AND NAVAL HISTORY *Mr. Kemble*
Second Semester. MWF 2:15.
(Offered in alternate years; not offered in 1964-65.)

A study of the development of sea power and oceanic commerce from the fifteenth century to the present.

132. SOUTH AFRICA *Mr. le Cordeur*
Second Semester. MWF 9.

The development of the broad area in which lies the Republic of South Africa from the arrival of the Dutch and the Bantus in the seventeenth century, with some consideration of contemporary problems.

- 135a,b. LATIN AMERICA *Mr. Levy*
MWF 8.

A survey of economic, political, social, and cultural problems and institutions from the Hispanic antecedents to Castro. First semester: to independence; second semester: to the present.

138. PROBLEMS IN LATIN AMERICAN HISTORY *Mr. Levy*
Second Semester. T 1:15-3:45.

Discussion and investigation of selected topics and limited areas. Some knowledge of Spanish or of Latin American history will be assumed and use will be made of Spanish language sources.

140. THE STUDY OF HISTORY *Mr. Larnihan and Staff*
Each Semester. TTh 2:40-3:55.

An introduction to the methods and philosophies of history through a consideration both of the problems of historical study and of major historians of the past.

- 144a,b. CHINA *Mr. Ch'en*
TThS 9. (Omitted in 1964-65.)

A general survey of China's cultural history. The complexities of the problem of present-day China in the light of her ancient cultural heritage.

145. JAPAN AND KOREA *Mr. Thompson*
First Semester. MWF 9. (Omitted in 1964-65.)

The evolution of Japanese and Korean cultural, social, economic, and political institutions since prehistoric times.

146. CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT *Mr. Ch'en*
Second Semester. TTh 1:15-2:30.

A rapid survey of the religious, intellectual, literary, and artistic relations and interchanges between China and the Western World from Greco-Roman times to the middle of the nineteenth century.

148. SOUTHEAST ASIA *Mr. H. B. Smith*
Second Semester. MWF 8.

A survey of the historical development and cultural impact of the peoples of Southeast Asia from earliest times to the present.

180. AMERICAN STUDIES

Mr. Sanders and Staff

First Semester. T 7:30-10:00 p.m.

An intercollegiate seminar for the study of related problems in literature, the arts, philosophy, religion, and the social studies in the United States in the period 1870-1910. (For 1964-65 the director of the seminar will be Mr. Sanders of Harvey Mudd College.)

190. SENIOR SEMINAR

Staff

Arranged.

Seminars will be offered from year to year in several fields of history. The topics will vary, but they will be of limited scope, such as "Twentieth Century Historiography," "The Gilded Age," "Tudor England."

198. INDEPENDENT STUDY

Staff

Each Semester. Arranged. Course or half-course. May be repeated. Open to qualified students for study during the term, the Pomona Semester Abroad, or the summer. Permission of the member of the Department with whom the work is to be done must be obtained prior to registration.

Individual or group programs of reading or research, with papers and examinations as the programs may require.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

The list of courses available in other Claremont Colleges consists mainly of courses which do not duplicate those offered also in Pomona College. For additional courses open for intercollegiate registration consult the mimeographed list used for preregistration or the catalogs of The Claremont Colleges. If a course duplicates one offered in Pomona, credit will be allowed for either the Pomona course or the course in one of the other Claremont Colleges, but not for both.

CLAREMONT MEN'S COLLEGE

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|-------|--|-------------------|
| H123. | RUSSIAN INTELLECTUAL HISTORY. First Semester. MWF 9. | <i>Mr. Rogers</i> |
| H124. | RUSSIA AND ASIA. Second Semester. MWF 9. | <i>Mr. Rogers</i> |
| H127. | EUROPEAN INTELLECTUAL HISTORY — 19TH CENTURY. First Semester. MWF 10. | <i>Mr. Rogers</i> |
| H128. | EUROPEAN INTELLECTUAL HISTORY — 20TH CENTURY. Second Semester. MWF 10. | <i>Mr. Rogers</i> |
| H173. | CONTEMPORARY CHINA. First Semester. TThS. 8. | <i>Mr. Israel</i> |
| H174. | CHINA AND AMERICA. Second Semester. TThS 8. | <i>Mr. Israel</i> |
| H175. | JAPANESE HISTORY. First Semester. TThS 10. | <i>Mr. Israel</i> |

HARVEY MUDD COLLEGE

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| 104. | AMERICAN ECONOMIC HISTORY. First Semester. F 1:15-3:05. | <i>Mr. Rae</i> |
| 106. | HISTORY OF SCIENCE. Second Semester. | <i>Mr. Rae</i> |

PITZER COLLEGE

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| 150. | THE INDIVIDUAL IN HISTORY. Second Semester. MWF 11. | <i>Mr. Warmbrunn</i> |
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SCRIPPS COLLEGE

III-115G. COLONIAL AMERICA, 1607-1763 First Semester. MW 3:15-4:05.	<i>Mr. Adair</i>
III-116. THE FOUNDATIONS OF AMERICAN DEMOCRACY, 1789-1865. First Semester. MWF 10.	<i>Mr. White</i>
III-117. THE EMERGENCE OF MODERN AMERICA, 1865-1914 Second Semester. MWF 10.	<i>Mr. White</i>
III-130a. FRANCE IN THE NINETEENTH CENTURY. First Semester. MW 1:15-2:30	<i>Mr. Brogden</i>
III-130b. FRANCE IN THE TWENTIETH CENTURY. Second Semester. MW 1:15-2:30.	<i>Mr. Brogden</i>
III-131. NATIONALISM, LIBERALISM, AND SOCIALISM: EUROPE IN THE NINETEENTH CENTURY. First Semester. TTh 1:15-2:30	<i>Mr. Brogden</i>
III-139. SCIENCE AND INVENTION IN THE MIDDLE AGES. First Semester. W 7:30-10 p.m.	<i>Mr. Blaine</i>
III-140. HISTORY OF THE EARLY MIDDLE AGES, c. 300-1000. First Semester. MWF 4:15.	<i>Mr. Blaine</i>
III-141. HISTORY OF THE LATER MIDDLE AGES, c. 1000-1500. Second Semester. MWF 4:15.	<i>Mr. Blaine</i>

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A number of graduate courses and seminars are open to qualified Seniors with the consent of the instructor and the approval of the chairman of the department. See the Claremont Graduate School catalog for course descriptions and prerequisites.

International Relations

The concentration in International Relations is governed by a faculty committee representing the several departments offering courses required for the concentration. For 1964-65 members of the Committee on International Relations are Messrs. Meyer (chairman), Armacost, Douglass, Levy, Lindberg, Scaff, Thompson, Vieg.

Seven courses of upper division work are to be taken from the offerings listed below. Within this list, while some electives are allowed, a number of courses are specifically required. Lower division prerequisites for courses in the upper division should be met in the Freshman and Sophomore years. These are Government 1, Economics 51 and 52, and History 1; students desiring to emphasize international social and economic development should take Sociology 51 in addition.

Proficiency in at least one modern foreign language is required. This requirement is normally satisfied by completing one of the following courses: French 81b, Spanish 81b, Russian 81b, Chinese 101b, or German 51b plus one semester of a third-year course in German. Wherever possible foreign language study should be undertaken in the Freshman year, but in any event the second year language course must be successfully completed by the end of the Junior year. Those majors with already

strong experience in a language may be excused from taking courses after an oral and written examination administered by a member of the appropriate department; this examination must be passed no later than April 15 of the Junior year.

A Senior thesis involving intensive research in some aspect of international relations of special interest to the concentrator is to be submitted to the Chairman of the Committee by May 15 of the Senior year. Concentrators should make use of departmental reading courses in the fall of the Senior year in preparation for organizing and writing the paper. In order to encourage background reading in the summer, the Committee requires submission of a tentative title for the Senior thesis by May 15 of the Junior year.

Under carefully defined conditions, the concentrator in International Relations is encouraged to participate in the Pomona Semester Abroad. Secure detailed description from faculty adviser or the committee chairman.

The comprehensive examination consists of two written examinations, and an oral examination before two members of the Committee. Some part of the examination will be in the foreign language of the student's choice.

For specific descriptions of the courses listed below see respective departmental listings:

I. CORE COURSES (5 courses required):

1. Government 151. INTRODUCTION TO INTERNATIONAL RELATIONS.
2. History 113. DIPLOMACY AND STATECRAFT, 1870-1960.
3. Economics 123. INTERNATIONAL ECONOMICS.
4. Government 155. FOUNDATIONS OF AMERICAN FOREIGN POLICY.
5. Government 195. SENIOR SEMINAR IN INTERNATIONAL RELATIONS.

II. TWO COURSES UNDER EITHER A OR B:

A. Regional courses:

EUROPE: Government 125; History 108, 117, 118, 119, 120, 130; Scripps III-130b, III-131b, III-132.

THE SOVIET AREA: Economics 195; Government 126G; History 114; Claremont Men's College H123, H124.

LATIN AMERICA: Pitzer, Anthropology 102; History 135a,b; Claremont Men's College P123; H176-7.

ASIA: History 60, 144a,b, 145, 146, 148; Government 127, 156; Claremont Men's College H124, H173, H174, H175.

AFRICA: Anthropology 101; Sociology 165; Government 156; History 132.

B. Economic and Social Development:

Economics 153. ECONOMIC DEVELOPMENT.

Government 156. POLITICS OF MODERNIZATION.

Sociology 153. COMPARATIVE SOCIAL MOVEMENTS.

Sociology 165. AFRICAN SOCIAL STRUCTURE AND SOCIAL CHANGE.

Sociology 190A. PROBLEMS OF WORLD DEMOGRAPHY.

Note: Government 193,194, "Readings and Research in International Relations," may be applied above according to the nature of the work undertaken.

Mathematics

EQUIPMENT: The department has excellent library facilities. It has a Bendix G-15 digital computer and several desk calculators; further large scale computing facilities are provided by membership in the Western Data Processing Center.

REQUIREMENTS FOR CONCENTRATION: Mathematics 30, 31, 32, or 50a,b; 105 (formerly 100), 110; and at least five additional upper division courses. Concentrators in Mathematics are urged to take several courses in a field in which mathematical applications are of importance. Philosophy 51 and 147 are also recommended.

UPPER DIVISION PROGRAM: Students planning to work for advanced degrees in Pure Mathematics or for the doctorate in Applied Mathematics should take Mathematics 130a,b and Mathematics 170a,b; they are urged to participate in seminars in their upper division work. A reading knowledge of German, Russian or French should be acquired.

Students planning advanced work in mathematical economics should take Mathematics 130a,b, Mathematics 151 and 152, and Mathematics 126.

Students planning to work for advanced degrees in Statistics or planning to enter actuarial work should take Mathematics 151 and 152.

Students planning careers in high school or elementary teaching should take Mathematics 124 (or Mathematics 151 and 152) and Mathematics 141a,b.

Students planning careers in the applications of mathematics to management and decision problems in business should take Mathematics S101 (Claremont Men's College), Mathematics 120, and Mathematics 124.

HONORS PROGRAM: Students interested in honors study should consult a member of the Department for information concerning this program.

PLACEMENT: All Freshmen who wish to enroll in a mathematics course other than Mathematics 2 or 3 should take the examination in Mathematics on the Saturday preceding registration. The score on this examination, as well as other factors, will be used in assigning students to Mathematics 3, 30, 50, or 105. Students who have passed the Advanced Placement Examination of the College Entrance Board with a high score may with departmental approval receive credit for all or part of Mathematics 30, 31, 32, or Mathematics 50a,b.

2. FUNDAMENTALS OF MATHEMATICS

Mr. Tolsted

Prerequisite: High school algebra and geometry. (Omitted in 1964-65.)

This course is designed primarily for majors outside the physical sciences. It includes logic, the development of the number system, algebra, probability, Boolean algebra, and Non-Euclidean geometry.

3a,b. INTRODUCTION TO COLLEGE MATHEMATICS

Mr. Tolsted

MWF 11. Prerequisite: High school algebra and geometry.

The first semester of this course contains essentially the same material as Mathematics 2 and is designed for majors outside the physical sciences. The two-semester sequence is designed to prepare students for Mathematics 30 as well as to provide a general mathematical background for students in the social and biological sciences.

30. ANALYTIC GEOMETRY AND CALCULUS I

Staff

First Semester. MWF 8, 9, 10, 11. Prerequisite: Mathematics 3 or a satisfactory score on the placement examination.

Mathematics 30, 31, and 32 comprise a standard integrated course in analytic geometry and calculus.

31. ANALYTIC GEOMETRY AND CALCULUS II

Staff

Second Semester. MWF 8, 9, 10, 11.

Continuation of Mathematics 30.

32. ANALYTIC GEOMETRY AND CALCULUS III

Staff

First Semester. MWF 10, 11; TThS 9.

Continuation of Mathematics 31, including an introduction to elementary differential equations.

50a,b. ANALYTIC GEOMETRY AND CALCULUS (ACCELERATED)

Mr. Cooke

MWFS 10. Prerequisite: Departmental approval.

This course covers the material of Mathematics 30, 31, and 32 in two semesters. Not open for credit to students who have had Mathematics 30, 31, 32.

105. INTRODUCTION TO LINEAR AND ABSTRACT ALGEBRA

Mr. Tolsted and Mr. Yale

First Semester: TThS 9, 10. Second Semester: MWF 11.

Prerequisite: Mathematics 30 or 50a or permission of the instructor.

Finite dimensional vector spaces, groups of linear transformations. The algebra of matrices. Eigenvalues and eigenvectors. Applications to systems of linear equations and linear inequalities.

110. DIFFERENTIAL EQUATIONS

Mr. Hamilton and Mr. Tellman

First Semester: TThS 9. Second Semester: MWF 10; TThS 9.

Prerequisite: Mathematics 32 or 50.

A general course in the theory and applications of ordinary differential equations.

120. NUMERICAL ANALYSIS AND DIGITAL COMPUTERS

Mr. Cooke

Second Semester. MWF 9.

Prerequisite: Mathematics 105 and 110 must precede or accompany this course.

Introduction to logic, the theory of mathematical machines and machine languages, programming, and the numerical solution of algebraic and differential equations.

124. STATISTICAL INFERENCE

Mrs. Myhre

First Semester. TThS 8. (Offered at Harvey Mudd College in 1964-65.)

Prerequisite: Mathematics 32 or 50. Not open for credit to students who have taken Mathematics 151.

Foundations of probability theory. Survey of the probability laws most often encountered in applications. Estimation of parameters, confidence intervals, and tests of hypotheses.

126. THEORY OF GAMES AND LINEAR PROGRAMMING

Prerequisite: Mathematics 105. (Omitted in 1964-65.)

An introduction to the mathematical foundations of the theory of games of strategy and the theory of linear programming. The Min-Max Theorem and the Duality Theorem. Several illustrative mathematical models in the social sciences will be constructed and studied.

130a,b. ADVANCED CALCULUS

Mr. Hamilton

TThS 10. Prerequisite: Mathematics 105 and 110 or permission of the instructor.

Set theory, the real number system, limits, sequences, continuity, the Riemann integral, improper integrals, uniform convergence, Taylor and Fourier series, partial derivatives, multiple integrals.

141a,b. GEOMETRY AND TOPOLOGY

Mr. Ives

MW 3:15; F 11. Prerequisite: Mathematics 105.
(Offered at Harvey Mudd College in 1964-65.)

Selected topics from the foundations of geometry, projective geometry, transformation groups, point-set topology, and combinatorial topology.

151. PROBABILITY

Mr. Bentley

First Semester. MWF 8. One hour to be arranged for a problem session.
Prerequisite: Mathematics 32 and 105. Not open for credit to students who have taken Mathematics 124.

A measure-theoretic introduction to probability. Topics will include probability measures, expectation, limit theorems, Markov chains, and common probability laws.

152. STATISTICS

Mr. Bentley

Second Semester. MWF 8. Prerequisite: Mathematics 151. Not open for credit to students who have taken Mathematics 124.

An introduction to the general theory of statistical inference, including estimation of parameters, confidence intervals, and tests of hypotheses.

155. NUMBER THEORY

Mr. Jaeger

First Semester. MWF 8. (Offered at Claremont Men's College in 1964-65.)
Prerequisite: Mathematics 32 or 50.

Unique decompositions, congruences and arithmetic functions. Solved and unsolved problems in the theory of numbers.

160. APPLIED MATHEMATICS

Mr. Miller

First Semester. MWF 8. Prerequisite: Mathematics 110.

Topics selected from problems in applied mathematics.

170a,b. ABSTRACT ALGEBRA

Mr. Tellman

MWF 11. Prerequisite: Mathematics 105.

Construction of the complex number system, fields, Galois theory, and arithmetic in quadratic number fields. Vector spaces, rings, and groups. Selected topics.

181. FUNCTIONS OF A COMPLEX VARIABLE

Mr. Tolsted

Second Semester. TThS 10. Prerequisite: Mathematics 130 or permission of the instructor.

Algebra and calculus of functions of a complex variable, Cauchy's Theorem, Taylor and Laurent expansions, conformal mapping, entire functions, meromorphic functions.

182. FUNCTIONS OF A REAL VARIABLE

Mr. McCarty

First Semester. MWF 9. Prerequisite: Mathematics 130.
(Offered at Harvey Mudd College in 1964-65.)

Basic convergence theorems and the Lebesgue integral. Topics from the theory of functions of bounded variation, differentiation of integrals, Fubini's theorem, and applications to Fourier series and LP spaces.

198. SUMMER RESEARCH

Open by invitation to students of proven ability. A written report and an oral presentation of the results of the summer's work are required.

199. SEMINAR AND RESEARCH

Staff

Arranged. Course or half-course. Prerequisite: Departmental approval.

Independent reading and research, and seminars in selected topics of higher mathematics are available to students of proven ability.

GRAPHIC SCIENCE. See Physics 7a,b.

MATHEMATICAL AND STOCHASTICAL BIOLOGY. See Zoology 175.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

The list of courses available in other Claremont Colleges consists mainly of courses which do not duplicate those offered also in Pomona College. For additional courses open for intercollegiate registration consult the mimeographed list used for preregistration or the catalogs of The Claremont Colleges. If a course duplicates one offered in Pomona, credit will be allowed for either the Pomona course or the course in one of the other Claremont Colleges, but not for both.

CLAREMONT MEN'S COLLEGE

S120. NUMERICAL ANALYSIS. Second Semester. MWF 11. *Mr. Ferling*

HARVEY MUDD COLLEGE

108. POINT SET TOPOLOGY. Second Semester. *Mr. McCarty*

131. EIGENVALUE PROBLEMS. First Semester. TThS 10. *Mr. Coleman*

185. SEMINAR IN ALGEBRA. First Semester. T 3:15-4:30; Th 2:15-3:30 *Mr. Pixley*

Philosophy 105. SYMBOLIC LOGIC. Second Semester. TTh 7-8:30 p.m. *Mr. Lemmon*

CLAREMONT GRADUATE SCHOOL

Mathematics 226. OPERATIONS RESEARCH *Mr. Ferling*
Second Semester. T 7-9:30 p.m.

Philosophy 204. INTRODUCTION TO MATHEMATICS *Mr. Lemmon*
Second Semester. W 3-5.

Military Science

Pomona College, in conjunction with Claremont Men's College, maintains a General Military Science Unit, Senior Division, of the Army Reserve Officers' Training Corps, established under the National Defense Act. The primary purpose is to provide officers for the United States Army Reserve; it also constitutes a source of junior officers for the Regular Army. ROTC graduates are commissioned in the Army branch for which they are individually considered best qualified. Graduates of the program who enter active military service for two years have a four-year obligation in the Reserve (total of six years). Those who are given six months of active duty for training remain in the Ready Reserve until the eighth anniversary of the receipt of their commissions. Students who demonstrate special proficiency are eligible for appointment in the regular Army through the Distinguished Military Graduate Program. Usually Regular Marine Corps commissions are also optionally available.

Army Flight Training is available to selected ROTC Seniors. Details may be secured from the Department.

The General Military Science ROTC program consists of subjects general in scope, so that the Department of the Army may appoint second lieutenants in combat, administrative, and technical services as required.

The courses include both classroom and out-of-doors instruction. During the Junior year (MS III) a one-day field trip is conducted at a nearby military installation for the purpose of familiarization firing with the rifle. Successful completion of the Army Physical Fitness Test is also required.

The instructors in the department are officers of the United States Army assigned for duty at the College by the Department of the Army. Uniforms, equipment and texts for the course are issued to the students without charge.

The four-year program is divided into the Basic Course (two years) and the Advanced Course (two years). Enrollment in the Basic Course is on a voluntary basis. Enrollment in the Advanced Course is on a selective basis. After a student has enrolled in either the basic or advanced course, the completion of the second year of that particular course (in coalignment with his academic course) becomes a prerequisite for graduation. Last day for withdrawal from the first year Basic Course is the date established by the college calendar as the last day for entering classes.

Normally the four-year program for an incoming Freshman without prior military service or ROTC training is:

Freshman Year	MS I (Basic)
Sophomore Year	MS II (Basic)
Junior Year	MS III (Advanced)
Summer Vacation	ROTC Summer Camp (6 weeks)
Senior Year	MS IV (Advanced)
Graduation	Appointment as 2nd Lieutenant United States Army Reserve

The Basic Course is open to all physically fit male students who are United States citizens. ROTC enrollment does not interfere with participation by students in sports or in other college activities.

Previous military service furnishes a basis for credit for Basic Course instruction according to the individual's length of service, type of training, and honorable discharge from the Armed Forces of the United States.

Enrollment in the Advanced Course (MS III and MS IV) is limited to selected members who have completed the Basic Course, or have received equivalent credit. A student entering the Advanced Course must sign an agreement with the United States Government that he will devote five (5) class hours per week to Military Science during the academic year; that he will attend an ROTC Summer Camp of six (6) weeks duration between his MS III and MS IV courses; and that he will accept an appointment as a second lieutenant in the United States Army Reserve, if tendered. In consideration of this Advanced Course agreement, students receive cash allowances from the Government equivalent to a scholarship of about \$640.00.

After the completion of one academic semester, regularly enrolled students may sign a "deferment agreement." They are then deferred from induction under the UMT&S Act until completion of both their ROTC and academic courses provided they remain in good standing. A college Freshman, eligible for MS II or MS III because of previous training, may be deferred if selected for enrollment and authorized a period of non-participation in ROTC classes.

Credit for Military Science is assigned as follows:

- Basic Course (two years: 1a-b; 52a-b): One Course
- Advanced Course, Junior Year (103a-b): One Course
- Advanced Course, Senior Year (154a-b): One Course

The three courses in Military Science may be taken in addition to or as part of the thirty-two courses required for graduation. (See "Amount of Work," under Academic Regulations.) A student involuntarily withdrawn from Military Science may petition for credit for that part of the work which he has completed.

1a-b. MILITARY SCIENCE I (Basic)

Staff

Class T or Th 8, 9, 10; Drill, M 1:15-2:05.

The year's work is credited as a half-course.

Organization of the Army and ROTC; Individual Weapons and Marksmanship; U. S. Army and National Security; Drill; plus Academic Elective during either semester to be selected from approved list.

52a-b. MILITARY SCIENCE II (Basic)

Staff

Class, TTh 8, 9, 10; Drill, M 1:15-2:05.

The year's work is credited as a half-course.

American Military History; Map and Aerial Photograph Reading; Introduction to Operations and Basic Tactics; Counter insurgency; Drill.

103a-b. MILITARY SCIENCE III (Advanced)

Staff

Class, MWF 8, 9; Drill, M 1:15-2:05.

The year's work constitutes one course. Credit also for related academic subject.

Leadership; Military Teaching Principles; Branches of the Army; Small Unit Tactics and Communications; Pre-camp Orientation; Physical Fitness Training; Counter insurgency; Drill; plus Academic Elective during either semester to be selected from approved list.

MILITARY SCIENCE III ROTC SUMMER CAMP (Advanced)

Camp Staff

Conducted at Ft. Lewis, Washington. Six weeks between third and fourth year.

Leadership; Marksmanship and Crew Served Weapons; Chemical, Biological, and Radiological Defense and First Aid; Maps, Aerial Photographs and Terrain Appreciation; Signal Communications; Tactics; Marches and Bivouacs; Drills and Parades; Physical Training and Organized Athletics.

154a-b. MILITARY SCIENCE IV (Advanced)

Staff

Class, MWF 8, 9; Drill, M 1:15-2:05.

The year's work constitutes one course. Credit also for related academic subject.

Operations; Logistics; Army Administration; Military Law; Role of the United States in World Affairs; Service Orientation; Map Reading Review; Drill; plus Academic Elective during either semester to be selected from approved list.

Music

COURSES OPEN TO NON-CONCENTRATORS: Courses designed primarily for non-concentrators include Introduction to Music (53, 54) and Materials of Music (4a,b). Ability to read music is required for the sequence of courses in the History of Musical Style (120, 121, 122, 123) and for Elementary Theory (1). Qualified students may be admitted by special action of the department to any course in music. Applied Music (vocal and instrumental) and the performing organizations (College choir, orchestra, band, chamber music, and the Glee Clubs) are open to all students. Those undecided about concentration in music are advised to take Elementary Theory (1) immediately, in order to clarify their choice of concentration and to avoid crowding their Senior year programs.

CONCENTRATION: The concentration program is designed both for the pre-professional musician preparing for a career within the field, and for the student who may have other vocational plans but wishes to major in music while an undergraduate.

REQUIREMENTS FOR CONCENTRATION: The following courses are required of all students concentrating in music: Elementary Theory (1a,b), Intermediate Theory (55a,b), Advanced Theory (107a,b), and the two-year sequence in the History of Musical Style (120, 121, 122, 123.)

All concentrators must take a Basic Musicianship Examination, testing skills in sight reading, ear training, and keyboard harmony. The elementary and intermediate parts of the examination are graded as parts of Elementary Theory (1a,b) and Intermediate Theory (55a,b), respectively; the advanced part is graded in the Comprehensive Examination for graduating seniors. Detailed information concerning the Basic Musicianship Examination may be obtained at the Music Department office.

All concentrators are expected to take part in the performing organizations, and to attend all concerts and recitals presented by the department.

In addition to the required courses listed above, one of the following areas of concentration is required:

APPLIED MUSIC: Two lessons per week in upper division Applied Music during the Junior and Senior years, frequent performance in Student Recitals, and performance of a Senior Recital.

COMPOSITION: Orchestration (113) and Free Composition (158).

GENERAL MUSIC: Credit study in Applied Music and continuing participation in performing organizations during the Junior and Senior years.

SECONDARY SCHOOL MUSIC: Orchestration (113), Conducting (117, 118), and Rudiments in the Playing of Orchestra and Band Instruments (119), with as much work as possible in piano, voice, and the performing organizations. In conjunction with the Claremont Graduate School, Pomona College offers a five-year program in which music majors who intend to teach in public schools may meet the requirements for the appropriate teaching credential. Such students will normally elect Secondary School Music as their area of undergraduate concentration. They should consult the Office of Credentials and Placement in the Claremont Graduate School, Harper Hall, about the State requirements as early as possible.

All concentrators are strongly urged to acquire a reading knowledge of at least one foreign language.

TRANSFER STUDENTS: Students transferring from other institutions as Juniors should take Elementary Theory (Music 1) or its equivalent before coming to Pomona, and should possess basic piano ability. They will be given a theory placement test to determine their proper course assignment and their transfer credit from previous theory study in college.

THEORY, HISTORY, AND LITERATURE

Music Theory courses for concentrators (1, 55, 107) are based upon analysis of musical works, practice in choral and instrumental textures, and writing in small forms.

1a,b. ELEMENTARY THEORY

Mrs. Briggs

MWF 10. Laboratory sections for ear training, sight singing, and keyboard harmony twice weekly: MF 11; or TTh 10. Prerequisite: ability to read music. Performance on elementary part of Basic Musicianship Examination included in course grade.

Diatonic harmony and two-part counterpoint.

4a,b. MATERIALS OF MUSIC

Miss Smith

MWF 10. The two semesters form a connected year course, but either may be taken separately.

Basic theory for the layman: melody, harmony, counterpoint, rhythm, form. Study of significant styles. Ability to read music important.

53. INTRODUCTION TO MUSIC I

Mr. Loucks and Staff

First Semester. Lectures, MW 2:15; discussion sections, M 3:15, or W 3:15, or F 2:15. No previous musical experience required.

Technique of intelligent listening, principles of musical structure, and historical survey of major composers and styles through the study of representative works of Beethoven and his predecessors.

54. INTRODUCTION TO MUSIC II

Mr. Kohn and Staff

Second Semester. Lectures, MW 2:15; discussion sections, M 3:15, or W 3:15, or F 2:15. No prerequisite.

Continuation of Music 53, with the study based upon the works of composers since Beethoven.

55a,b. INTERMEDIATE THEORY

Mr. Kohn and Mr. Loucks

MWF 11. Laboratory sections for ear training, sight reading, and keyboard harmony twice weekly: M 2:15 and F 1:15; or TTh 1:15. Performance on intermediate part of Basic Musicianship Examination included in course grade. Prerequisites: Music 1, and Basic Musicianship Examination, Part II.

Chromatic harmony and three-part counterpoint.

107a,b. ADVANCED THEORY

Mr. Loucks and Mr. Kohn

TThS 10. Prerequisites: Music 55, and Basic Musicianship Examination, Part III.

Contrapuntal devices and forms; twentieth century techniques.

113a,b. ORCHESTRATION AND INSTRUMENTATION *Mr. Blanchard*

Arranged. Half-course each semester. Prerequisite: Music 55.

Scoring for orchestra, band, and vocal groups. Opportunity for public performance of outstanding work.

117. CHORAL CONDUCTING *Mr. Russell*

First Semester. T 2:15-4:05. Prerequisites: Choral experience, basic piano and sight singing ability, knowledge of elementary theory, and permission of the instructor. Half-course. (Offered in alternate years; not offered in 1964-65.)

Technique of conducting, repertoire, score analysis, rehearsal planning, chorus building.

118. INSTRUMENTAL CONDUCTING *Mr. Fiske*

Second Semester. F 1:15-3:05. Permission of instructor required. Half-course. (Offered in alternate years; not offered in 1964-65.)

Baton technique, beat formation in all rhythms, score reading, rehearsal problems, repertoire.

119a,b. RUDIMENTS IN THE PLAYING OF ORCHESTRAL AND BAND INSTRUMENTS *Miss Smith and Mr. Blanchard*

TTh 1:15. Half-course each semester. (Offered in alternate years; offered in 1964-65.)

First semester: strings; second semester: winds.

The following four courses (120, 121, 122, 123) constitute a two-year sequence in the history of musical style. Study by formal analysis, class performance, and guided listening, of a repertoire selected to exemplify the respective periods stylistically and chronologically, with supplementary readings in the basic works of history and reference. Permission of the instructor required for non-concentrators. Concentrators must take the sequence in order, one course per semester.

120. MUSIC OF THE MIDDLE AGES AND THE RENAISSANCE *Mr. Kohn*

First Semester. MWF 9.

121. MUSIC OF THE BAROQUE AND PRE-CLASSICAL PERIODS *Miss Smith*

Second Semester. MWF 9.

122. MUSIC OF THE CLASSICAL PERIOD AND THE NINETEENTH CENTURY *Mr. Fiske*

First Semester. TThS 9.

123. MUSIC OF THE TWENTIETH CENTURY *Mr. Loucks*

Second Semester. TThS 9.

158a,b. FREE COMPOSITION *Mr. Kohn*

Arranged. Permission of instructor required.

Advanced studies in the elements of contemporary techniques, and original work intended to develop the student's sense of structure and style.

AVAILABLE AT SCRIPPS COLLEGE

II-69. NINETEENTH CENTURY MUSIC *Mr. Collins*

Year course. TTh 1:15-2:45.

- II-114. BEETHOVEN AND THE ROMANTIC MOVEMENT *Mr. Collins*
First Semester. TTh 10.
- II-115. TWENTIETH CENTURY STYLES *Mr. Collins*
Second Semester. TTh 10.

GRADUATE STUDY IN MUSIC

The Claremont Graduate School offers work leading to the Master of Arts degree with majors in Applied Music, Music History, Composition, and Music Education.

PERFORMING ORGANIZATIONS

Open to all students in the college. Credit is granted for satisfactory participation in each performing organization (the Glee Clubs excepted) on a cumulative basis: four semesters' participation is the equivalent of one half-course. No credit is given for less than four semesters' participation. Credit may be aggregated among the several organizations, but may not be had for more than two organizations in any one semester. Grades are on the pass-fail basis. Participation may be repeated for credit. To obtain credit for participation in the performing organizations students must register for it during the regular pre-registration and/or registration periods.

- 50A. COLLEGE CHOIR *Mr. Russell*
Each Semester. MTWF 12:30-1:05; Th 11:30-12:20. (Women do not meet on T; men do not meet on M.) New members admitted in first semester only. Fee to cover cost of music: \$2.00.

The study of classic and contemporary choral music through rehearsals leading to public performance. Continued membership is contingent upon satisfactory performance in a singing test held in October on music practiced during the opening weeks of the year.

- 50B. ORCHESTRA *Mr. Fiske*
TTh 4:15-5:45. Permission of instructor required. Two periods of attendance weekly. Additional section rehearsals at option of director.

A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance.

- 50C. BAND *Mr. Russell*
First Semester: Football Band. MW 4:15, and the Varsity games.
Second Semester: Concert Band. T 6:30-8:30 p.m.

- 50D. CHAMBER MUSIC *Mr. Fiske*
Each Semester. M 1:15-3:05 and arranged. Open only to advanced instrumentalists. Permission of instructor required.

The study of important chamber music literature through analysis and performance.

- MEN'S AND WOMEN'S GLEE CLUBS *Mr. Russell*
Normal schedule: two practices weekly. No credit. Concurrent membership in College Choir essential. New members admitted by tryout only, at the opening of the college year.

The Glee Clubs, student-managed, offer opportunity for performance in a small extra-curricular ensemble, both on and off campus.

APPLIED MUSIC

Open to all students in the college. Applied Music may be taken either with credit or without.

GENERAL: The sign-up procedure for lessons in Applied Music begins at the Music Department Office. All students must pass qualifying examinations to establish eligibility for credit, since no credit is given for elementary study, and no credit is given for work in Applied Music taken elsewhere. Credit is granted for Applied Music study on a cumulative basis. One lesson per week carried through four semesters, or two lessons per week carried through two semesters, is the equivalent of one half-course. Credit is given only upon completion of each such half-course. All private lessons are one half-hour in length.

LIMITATIONS: Students become eligible for one half-course of Lower Division credit in Applied Music by passing the Lower Division qualifying examination. For further credit they must take Elementary Theory (Music 1) or Materials of Music (Music 4) either preceding or accompanying the additional work in Applied Music. Intermediate Theory (Music 55) must precede or accompany all work for Upper Division credit. Limit of credit in Applied Music toward the Bachelor of Arts degree: 2 courses.

QUALIFYING EXAMINATIONS: Students working for credit in Applied Music are enrolled in two categories: Lower Division (Music 11), and Upper Division (Music 111). The passing of a qualifying examination is required for entrance into either category. These examinations are normally given near the beginning of each semester, and near the close of the college year. Arrangements for the examination should be made through the Applied Music instructor. Printed information concerning the qualifying examinations may be obtained at the Music Department office.

Fees for instruction and for the use of practice rooms are listed on pages 45 and 46.

While instruction in Applied Music is organized on a semester basis, and credit is granted only for full semesters of study, students may begin non-credit lessons at any time, at pro-rated tuition. Registration for credit study should be made during the regular pre-registration and/or registration periods; a late registration fee will be charged after the first ten days of any semester to defray the clerical expenses involved in making the change.

VOICE, *Mr. Allard, Mrs. Briggs.*

ORGAN, *Mr. Blanchard.*

PIANO, *Mr. Ritter, Mr. Kohn, Mr. Pierce, and Mr. Reifsnnyder.*

VIOLIN AND VIOLA, *Mr. Fiske.*

VIOLONCELLO, *Miss Jean.*

STRING BASS, *Mr. Gregory.*

HARP, *Mrs. Remsen.*

FLUTE, *Mr. Stevens.*

OBOE, *Mrs. Geller.*

CLARINET, *Mr. Bloch.*

FRENCH HORN, *Mr. Pyle.*

TRUMPET, TROMBONE, *Mr. Tyler.*

GUITAR, *Mr. Barroso.*

Philosophy

The Claremont Colleges offer a coordinated program in Philosophy, in which Pomona participates.

CONCENTRATION: Six upper division courses, including A) three from the Philosophy 110-114 series; and B) Philosophy 192. Philosophy 51 is strongly recommended for all concentrators. Those intending to do graduate work should acquire a reading knowledge of both French and German as early as possible.

With departmental approval, two courses in another field may be substituted for philosophy courses, if the student is competent in that field and if the work is directly relevant to his program in Philosophy.

HONORS STUDY: Philosophy concentrators are urged to consider Honors Study. To work out the details of a specific program, consult a member of the department.

JOINT CONCENTRATIONS: Consult a member of the department for information about joint concentrations in Philosophy-Literature, Philosophy-History, and Philosophy-Religion.

Introductory courses, designed to acquaint the student with the principles of philosophical criticism and with important documents representative of Western thought.

50. PROBLEMS OF PHILOSOPHY

Staff

First Semester: MWF 9, 10, 11; TThS 9.

Second Semester: MWF 9, 10; TThS 9; T 1:15-3:05.

An introduction to the methods and problems of philosophy, through a consideration of some major original works.

51. LOGICAL THEORY

Mr. Beckner

First Semester. MWF 9.

An examination of the principles of critical thinking, using symbolic methods where appropriate. Topics considered: functions and structure of language, fallacy, deduction, empirical and evaluative argument.

52. PHILOSOPHY OF HISTORY

Mr. Sontag

Second Semester. TTh 1:15.

The nature of historical knowledge and the various theories concerning the interpretation, the goal, and the significance of history, including Augustine, Hegel, Marx, and Berdyaev.

History of Philosophy Series. Five semester courses designed to present the history of western philosophy through primary source readings, lectures, and discussions.

110. CLASSICAL PHILOSOPHY

Mr. Gould

First Semester. TThS 10.

The beginnings of philosophical thought, including the Pre-Socratics, Plato, and Aristotle; the Stoics and Epicureans, Plotinus, and Hellenistic thought.

111. MEDIEVAL PHILOSOPHY

Fr. Winance

First Semester. T 1:15-3:05.

The medieval development of the western philosophical tradition and a study of the philosophies of Augustine, Anselm, Thomas Aquinas, Bonaventure, Duns Scotus, and Ockham.

112. MODERN PHILOSOPHY

Second Semester. (Offered at Harvey Mudd College in 1964-65 as Philosophy 101.)

An examination of two major movements in the seventeenth and eighteenth centuries: a) Continental Rationalism, including Descartes, Spinoza, and Leibnitz; and b) British Empiricism, including Locke, Berkeley, and Hume.

113. NINETEENTH CENTURY PHILOSOPHY

Mr. Erickson

First Semester. TThS 9.

A study of the philosophic thought of the nineteenth century, with emphasis upon the rise of German idealism and its decline. The writings of Kant, Hegel, Marx, and Nietzsche will be given major consideration.

114. CONTEMPORARY PHILOSOPHY

Mr. Lemmon

Second Semester, MWF 11.

A study of the major movements in twentieth century philosophy, including some representatives of western rationalism, the Logical Positivists, and Contemporary Analysis.

The following series is designed to make available to the general student courses in philosophy that explore the foundations of a variety of disciplines, and examine their methods and cultural implications.

140. PHILOSOPHY AND THE WORLD OF ART

Mr. Erickson

Second Semester. TTh 1:15.

A philosophical analysis of the problems of the artist, as seen from his own standpoint, and from that of the critic, the connoisseur, and society.

141. PHILOSOPHY AND THE SOCIAL SCIENCES

Mr. Jones

First Semester. MWF 10.

A critical study of the basic metaphysical and epistemological presuppositions of the social sciences, including history. Among other matters considered are the function of theory in these fields, the nature of evidence, and the problem of "objectivity."

143. APPROACHES TO ETHICS

Second Semester. (Offered at Claremont Men's College in 1964-65 as Philosophy H149.)

An examination of the main approaches in ethical theory, in terms of their ability to illuminate and aid in the solution of concrete moral problems.

144. PHILOSOPHY OF RELIGION

Mr. Sontag and Mr. Erickson

First Semester. TTh 1:15.

A discussion of the major issues in religion which have been given philosophic treatment, the existence and nature of God, the problems of evil, faith, mysticism. Readings from both classical and contemporary sources.

145. PHILOSOPHY AND POETRY

Mr. Jones

First Semester. MWF 9. (Omitted in 1964-65.)

A study of four philosophical poets: Lucretius, Dante, Goethe, and T. S. Eliot.

146. KIERKEGAARD AND EXISTENTIALISM *Mr. Sontag and Mr. Erickson*
Second Semester. TThS 10.

An attempt to understand what modern Existentialism means as an approach to life, through a reading of Kierkegaard's writings, and by a comparison with Sartre, Camus, Jaspers, Heidegger and Nietzsche.

147. PHILOSOPHY OF SCIENCE *Mr. Beckner*
First Semester. MWF 11.

An analysis of the nature of scientific method, theory, and innovation through an examination of selected topics in the history of science.

148. PHILOSOPHICAL PSYCHOLOGY *Mr. Sontag and Mr. Beckner*
Second Semester. TThS 9.

A study of two classical and two modern psychological theories, including Aristotle, Plato or Plotinus; Freud and Jung (Mr. Sontag). A systematic study of two contemporary philosophies of mind, behaviorism and phenomenology (Mr. Beckner).

149. ORIENTAL PHILOSOPHY *Mr. Hutchison*
First Semester. MWF 10. (Offered in alternate years; not offered in 1964-65.)

Philosophies of India, China and Japan. Representative men, ideas and traditions studied in documents in translation.

The following courses are designed for concentrators and for students with previous work in philosophy.

190. RESEARCH PROJECTS *Staff*
Arranged. Course or half-course. With permission, 190 may be taken as a summer reading course.

Independent reading and study on a topic of the student's choice, normally culminating in a research paper.

192. SENIOR SEMINAR *Staff*
First Semester. W 1:15-3:05.

Discussion and critical analysis of student research papers on a variety of philosophical topics, with a subject or theme to be selected in advance by each participant.

POLITICAL THEORY. See Government 171.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

The list of courses available in other Claremont Colleges consists mainly of courses which do not duplicate those offered also in Pomona College. For additional courses open for intercollegiate registration consult the mimeographed list used for preregistration or the catalogs of The Claremont Colleges. If a course duplicates one offered in Pomona, credit will be allowed for either the Pomona course or the course in one of the other Claremont Colleges, but not for both.

CLAREMONT MEN'S COLLEGE

- H141. PHILOSOPHY OF POLITICS AND LAW. First Semester. WF 1:15. *Mr. Doyle*
H147. PHILOSOPHY OF SOCIAL INQUIRY. Second Semester. WF 1:15. *Mr. Doyle*
H149. APPROACHES TO ETHICS. Second Semester. MWF 10. *Mr. Doyle*

HARVEY MUDD COLLEGE

- H101. MODERN PHILOSOPHY. Second Semester. *Mr. Waldman*
H105. SYMBOLIC LOGIC. Second Semester. MTh 7-8:30 p.m. *Mr. Lemmon*

SCRIPPS COLLEGE

- IV-158. SYMBOLS, VALUES AND STANDARDS. Second Semester. MWF 11. *Mr. Barrett*
IV-159a,b. HISTORY OF MODERN PHILOSOPHY. MWF 10. *Mr. Barrett*

CLAREMONT GRADUATE SCHOOL

A number of graduate courses and seminars are open to qualified Juniors and Seniors with the consent of the instructor and the approval of the chairman of the department. See the Claremont Graduate School catalog for course descriptions and prerequisites.

Physical Education

A student is required to take two Physical Education Activities per semester during his Freshman and Sophomore years, and one activity per semester during his Junior and Senior years. Activity courses are marked on a "Pass-Fail" basis, and successful completion of all work is required for graduation.

PROFESSIONAL PREPARATION

Although the College does not offer a concentration in Physical Education, certain professional courses are offered for those students interested in the field, provided there is sufficient demand. Election of these courses, followed by a year of graduate work, may qualify the student for the General Credential with a major or minor in Physical Education. It may also qualify the student for further study in physical therapy, occupational therapy, and recreation. Interested students should confer with a member of the Physical Education Department during the Freshman year.

It is suggested that the four years of physical education activities be so selected as to give the individual the opportunity for both technical skills and leadership training in a wide range of activities.

THEORY

50. INTRODUCTION TO PHYSICAL EDUCATION *Mr. Malan*
First Semester. TTh 8.

A consideration of the nature of the profession and related fields of health and recreation, including a study of professional leaders, publications, and opportunities.

125. ANALYSIS OF PLAY AND COMMUNITY RECREATION *Miss Cawthorne*
Second Semester. MWF 8. (Offered in alternate years; offered in 1964-65.)

The nature and function of play in meeting the physical, mental, emotional, and social needs of people of all ages in both physical education and leisure time pursuits. An analysis of the organization and administration of community recreation departments, programs, and leadership.

130a,b. THE HISTORY AND TEACHING OF DANCE

Mrs. Hypes

Lecture, T 2:15; laboratory, F 1-3. Half-course each semester. Offered in alternate years; not offered in 1964-65.)

Analysis of the problems and techniques of teaching rhythms at the elementary or high school level. First Semester: historical background of folk dance and methods of teaching elementary rhythms and folk dance. Second Semester: historical background and methods of teaching contemporary dance at the secondary school level.

150. SELECTED TOPICS IN PHYSICAL EDUCATION

Staff

Each Semester. Arranged. Course or half-course.

Independent reading and research, with papers and examinations as individual programs may require.

154. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION

Mr. Malan

Second Semester. MWF 8. (Offered in alternate years; not offered in 1964-65.)

A study of Physical Education philosophy including the scientific bases and the historical development of the profession, the formulation of guiding principles, and the relation of those principles to current practice.

MEN'S ACTIVITIES

Students engage in an elective program of physical education activities except as certain limits are imposed by medical and physical examinations and tests and by department requirements. Freshmen are required to participate in an Orientation course. The course is designed to introduce Freshmen to the program of physical activity at Pomona College, to provide opportunity for group and self-testing, and to present experiences in fundamental movement including emphasis on general physical development. In addition, students must demonstrate ability to swim and reasonable skill or experience in at least two individual sports.

The following physical education activities are carried on under supervision of the department. Those marked with an asterisk are conducted in cooperation with the Women's Department:

*archery	*fencing	riding	trampoline
*badminton	*golf	skiing	tumbling
*bowling	gymnastics	swimming and diving	volleyball
*dance	life saving	tennis	weight training
			wrestling

Nominal fees are required each semester of those who select archery, badminton, bowling, fencing, golf, riding, social dance, square dance, skiing, and tennis.

The department conducts a competitive intramural program of sports in season including:

badminton	swimming
basketball	track and field
flag football	volleyball
softball	wrestling

The college program of intercollegiate athletics is an integral part of the program of physical education. No student is permitted to participate in the more strenuous forms of competition without certification by the College Physician that the indi-

vidual is physically fit for such participation. Opportunities for intercollegiate competition are provided in the following:

baseball	football	swimming
basketball	golf	tennis
cross-country	rugby	track and field
fencing	soccer	water polo
		wrestling

Men are registered for activities on the basis of the following course numbers:

Freshmen: 1a-b, 2a-b
Sophomores: 53a-b, 54a-b

Juniors: 105a-b
Seniors: 107a-b

WOMEN'S ACTIVITIES

Physical examinations are given entering students. Physical activities are allowed or prescribed as the result of these examinations. Participation in a FUNDAMENTAL activity is required one semester of the Freshman year. Students may have freedom of election in other activities but must include by the end of the Sophomore year one individual sport and one dance class. The passing of a swimming test is required for graduation. This should be completed by the end of the Sophomore year.

Freshmen and Sophomores must arrange their activities so that both classes do not fall on the same days.

FUNDAMENTALS: modern dance, body mechanics, body fitness.

TEAM SPORTS: basketball, hockey, speedball, softball, volleyball.

INDIVIDUAL SPORTS: archery, badminton, golf, ice skating, fencing, riding, riflery, roller skating, bowling, tennis, trampoline, swimming, track and field.

DANCING: modern, folk, square, social.

RECREATIONAL GAMES: table tennis, paddle tennis, shuffleboard, etc.

Nominal fees are required each semester of those who select archery, badminton, bowling, fencing, golf, ice skating, riding, soical dance, square dance, tennis.

Women are registered for activity classes on the basis of the following course numbers:

Freshmen: 11a-b, 12a-b
Sophomores: 63a-b, 64a-b

Juniors: 115a-b
Seniors: 117a-b

Physics

CONCENTRATION REQUIREMENTS: Physics 51a,b or 61a,b; 100; 101; 141a,b; 151a,b; 192; 195; Mathematics 110; Chemistry 1a,b or 51.

PRE-PROFESSIONAL PROGRAM: A student planning graduate work in physics should include additional courses in physics and mathematics. A reading knowledge of German, French or Russian should be acquired. Modified programs within the physics concentration are offered in preparation for such interdisciplinary fields as astrophysics, biophysics and geophysics. Consult the staff for details.

LABORATORY FACILITIES: Concentrators will be expected to demonstrate facility in laboratory areas of the department. Included are electron microscopy, digital and analog computation, nuclear measurements and cyclotron techniques, magnetic measurements, x-ray diffraction and microscopy, electron spin resonance, microwaves and optical measurements. This experience is normally obtained in Physics 141 and 192. Additional work may be included in Physics 198 and 199.

1a,b. INTRODUCTION TO PHYSICS

Mr. Fryer

MWF 9. Admission to 1b without 1a by permission. Prerequisite: none.

An introduction to physics through study of the growth of ideas and the scientific method. Supported by appropriate films and demonstrations. Students will be expected to pursue a reading program from current literature and classical references. Intended for those majoring in humanities and social sciences.

2a,b. GENERAL PHYSICS

Mr. Fowler and Mr. Fryer

MWF 9. Laboratory, F 1:15-4:05. Prerequisite: Trigonometry. Mathematics 3 preceding or accompanying the course is recommended. Fee \$6.00.

Intended for those in science areas other than physical science and engineering. One or more lectures each week in common with Physics 1. Monday sections devoted to discussion and analysis. The laboratory parallels that of Physics 51.

7a,b. GRAPHIC SCIENCE

Mr. Grimm

Lecture, W 2:15 or 4:15. Laboratory, any afternoon. NC.

Engineering graphics, graphic analysis, graphical methods of problem solving, curve fitting, slide rule and desk calculator techniques.

51a,b. GENERAL PHYSICS

Mr. Ogier and Staff

TThS 8. Laboratory, W or Th, 1:15-4:05. Prerequisite: Completion or concurrent enrollment in Mathematics 30, 31, or 50a,b. Fee \$6.00.

For those planning further work in physical science, engineering and other science areas.

61a,b. GENERAL PHYSICS WITH EXPERIMENTAL ANALYSIS

Mr. Ogier and Mr. Henke

TThS 8. Laboratory, M or T 1:15-4:05. Prerequisite: Completion or concurrent enrollment in Mathematics 30, 31, or 50a,b. Fee \$6.00.

Intended for those planning to major in physics and for well-prepared students in other sciences. Recommended particularly for those planning careers in research. Lectures in common with Physics 51. Discussion and laboratory periods emphasize problem solving through the use of models, optimized experimental design, numerical analysis of data, error analysis and scientific report writing.

100. **FIELDS, WAVES, AND PARTICLES** *Mr. Fowler*
 First Semester. MWF 10 and one conference hour arranged. Prerequisites: Physics 51 or 61; completion or concurrent enrollment in Mathematics 32 or permission of the instructor.
 Classical radiation theory and electromagnetic waves; physical optics; special relativity.
101. **ATOMIC AND NUCLEAR STRUCTURE** *Mr. Fowler*
 Second Semester. MWF 10 and one conference hour arranged. Prerequisites: Physics 100 and completion or concurrent enrollment in Mathematics 110 or permission of the instructor.
 An introduction to wave mechanics, spectra and structure of atoms, solid state, and nuclear physics.
- 141a,b. **ELECTRICITY AND MAGNETISM** *Mr. Fryer and Mr. Miller*
 MWF 11. Laboratory T 1:15-4:05. Prerequisites: Physics 51 or 61 and Mathematics 110, or permission of the instructor. Fee \$6.00.
 First Semester: Electrical circuit theory and physical electronics; applications. Second Semester: Physical basis of the Maxwell theory including electromagnetism in material media.
- 151a,b. **MECHANICS** *Mr. Henke*
 TThS 9. Prerequisites: Physics 51 or 61, Mathematics 110, or permission of the instructor.
 The classical mechanics of Newton, Lagrange and Hamilton, and an introduction to the methods of statistical mechanics.
186. **ELECTROMAGNETIC THEORY** *Mr. Ogier*
 Second Semester. MW 10. Prerequisites: Physics 141a,b and Mathematics 160 or permission of the instructor. Half-course. (Omitted in 1964-65.)
 Maxwell field theory, radiation, special relativity, and covariant formulation.
192. **ADVANCED PHYSICS LABORATORY** *Staff*
 Each Semester. Th 1:15-4:05. Prerequisites: Physics 141 and departmental approval. Half-course each semester. May be repeated for credit. Fee \$6.00.
 Experimental study of selected areas in physics with emphasis on modern techniques.
195. **THERMODYNAMICS** *Mr. Henke*
 First Semester. MW 10. Prerequisites: Physics 51 or 61 and Mathematics 110. Half-course.
 The laws of thermodynamics and their application to physical phenomena.
196. **QUANTUM MECHANICS** *Mr. Miller*
 First Semester. MWF 11. Prerequisites: Physics 101 and Mathematics 160, or permission of the instructor.
 The Schrodinger equation and application to atomic and nuclear phenomena, perturbation techniques, scattering phenomena, elementary relativistic quantum mechanics.
197. **ATOMIC PHYSICS** *Mr. Sogo*
 Second Semester. MWF 11. Prerequisite: Physics 196 or permission of the instructor.
 Applications of classical and quantum physics to problems of atomic and molecular structure.

198. SUMMER RESEARCH

Staff

Open to students of proven ability by invitation. A written report and seminar presentation of the summer's effort is normally required.

Staff research projects currently in progress include ultra soft x-ray physics, magnetism and magneto-optics, cyclotron physics, electron-spin resonance, astrophysics, and associated theoretical analysis.

199. SELECTED TOPICS

Staff

Available to students of proven ability. Prerequisite: Departmental approval. Course or half-course.

Directed research or independent study of advanced subjects not treated in other courses of the department.

Psychology

The psychology curriculum is designed to provide an integrated study focused upon 1) a broad background in the principles of psychology, 2) the significance of these principles in special fields, and 3) theory and problems of psychological measurement and investigation.

REQUIREMENTS FOR CONCENTRATION: Psychology 158, 160, 162 and 194a,b plus two other psychology courses. With the permission of the department chairman, two courses in Zoology numbered 100 or above may be substituted for the non-specified courses in psychology. Students planning on further graduate training leading to careers in professional psychology (e.g. clinical psychology, industrial psychology, vocational rehabilitation, college teaching) are advised to have an adequate preparation in mathematics, the physical sciences, and biology.

Psychology 51 or its equivalent is prerequisite for all psychology courses except Psychology 106 at Pomona or IV-112 at Scripps. Enrollment in a course for which the prerequisite has not been completed may be granted in special cases by permission of the department chairman.

51. INTRODUCTION TO PSYCHOLOGY

Staff

First Semester: MWF 9; TTh 1:15-2:30; laboratory section W or F 2:15-4:05.
Second Semester: MWF 10; TTh 1:15-2:30; laboratory section W or F 2:15-4:05. Fee \$10.00.

An overview of the scientific approach to the study of human development, personality, motivation, and learning. Laboratory is designed to acquaint the students with research techniques and basic principles of the description and quantification of behavior.

107. EDUCATIONAL PSYCHOLOGY

Mr. Faust

First Semester. MWF 11.

The application of principles of learning and theory of child development to education.

108. CHILD PSYCHOLOGY

Mr. Faust

Second Semester. MWF 9.

Analysis of theories of personality development and demonstration of methods of studying young children.

131. ABNORMAL PSYCHOLOGY

Mr. Oskamp

Second Semester. MWF 10.

Problems of maladjustment, factors contributing to mental disorders, methods of diagnosis and therapy.

132. INDIVIDUAL READINGS AND RESEARCH

Staff

Each Semester. Arranged. Prerequisites: Permission of the instructor and two courses in psychology. Course or half-course. May be repeated for credit.

136. PSYCHOLOGY AS APPLIED TO INDUSTRIAL ORGANIZATIONS

Staff

First Semester. (Omitted in 1964-65.)

154. SOCIAL PSYCHOLOGY

Mr. Bell

Second Semester. MWF 11.

Examination of the psychological factors of group behavior, with special emphasis on leadership and group behavior.

158. EXPERIMENTAL PSYCHOLOGY: PERSONALITY MEASUREMENT AND TEST CONSTRUCTION

Mr. Bell

First Semester. MWF 10 and arranged. Fee \$10.00.

A survey of testing theories and procedures as applied to the evaluation and understanding of personality.

159. PHYSIOLOGICAL PSYCHOLOGY

Mr. Frederick

First Semester. T 7-9:30 p.m. (Offered in alternate years; offered in 1964-65.)

Physiological and neural aspects of psychological functions.

160. EXPERIMENTAL PSYCHOLOGY: PERCEPTION AND COGNITION

Mrs. Kidd

Second Semester. Lecture and laboratory, TTh 2:15-4:05. Prerequisite: Psychology 158. Fee \$10.00.

Principles of human perception and thinking with special emphasis on design of representative experiments and analysis of data. Lecture, laboratory and demonstrations.

161. EXPERIMENTAL PSYCHOLOGY: MOTIVATION AND EMOTION

Mrs. Kidd

First Semester. Lecture and laboratory, TTh 2:15-4:05. No prerequisite.

A study of major concepts of motivation and emotional experience. Emphasis in laboratory on basic principles and methods of measurement.

162. EXPERIMENTAL PSYCHOLOGY: LEARNING AND PROBLEM SOLVING

Mr. Faust

Second Semester. Lecture and laboratory, MW 2:15-4:05. Prerequisite: Psychology 160. Fee \$10.00.

An introduction to the experimental and theoretical issues in human learning and problem solving.

165. PSYCHOANALYTIC THEORIES OF PERSONALITY

Mrs. Kidd

First Semester. TThS 10.

A study of Freudian and Neo-Freudian Personality Theory and its impact upon behavioral sciences and theories of man.

173. NON-PSYCHOANALYTIC THEORIES OF PERSONALITY *Mr. Bell*
 Second Semester. TTh 10 and arranged. (Offered in alternate years; offered in 1964-65.)

An examination and evaluation of current non-psychoanalytic theories of personality and their relevance for the individual in modern society.

192. SENIOR RESEARCH PROBLEMS *Staff*
 Each Semester. W 1:15 and arranged. Course or half-course. May be repeated for credit.

Each student will plan and conduct a research project under the direction of the staff.

- 194a,b. SENIOR TOPICS *Staff*
 TThS 9. Required of concentrators. Open to others by permission.
 A survey of critical readings and research publications.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

The list of courses available in other Claremont Colleges consists mainly of courses which do not duplicate those offered also in Pomona College. For additional courses open for intercollegiate registration consult the mimeographed list used for preregistration or the catalogs of The Claremont Colleges. If a course duplicates one offered in Pomona, credit will be allowed for either the Pomona course or the course in one of the other Claremont Colleges, but not for both.

CLAREMONT MEN'S COLLEGE

- P191. INDUSTRIAL PSYCHOLOGY. First Semester. MWF 11. *Mr. Albrecht*
 P192. SMALL GROUP BEHAVIOR. First Semester. WF 1:00-2:15. *Mr. Albrecht*
 P195. PERSONALITY THEORY AND DYNAMICS *Mr. Bruce*
 First Semester. TTh 1:00-2:15.
 P196. EXPERIMENTAL PSYCHOLOGY. Second Semester. TTh 1:00-2:15. *Mr. Bruce*
 P197. ORGANIZATION AND ADMINISTRATION *Mr. Albrecht*
 Second Semester. MWF 11.

SCRIPPS COLLEGE

- IV-105. PERSONALITY DEVELOPMENT. Second Semester. MWF 10. *Mrs. Faust*
 Prerequisite: IV-52 or equivalent.
 IV-106. RESEARCH DESIGN IN PSYCHOLOGY. First Semester. MWF 1:15 *Mrs. Faust*
 Permission of instructor required.
 IV-110. CHILD DEVELOPMENT. First Semester. MWF 11. *Mrs. Jones*
 Prerequisite: IV-52 or equivalent.
 IV-112. CHILD STUDY IN THE NURSERY SCHOOL *Mrs. Jones, Mrs. Westbrook*
 Year course. MW 2:15 and 3 arranged hours in the Nursery School.
 IV-114. NURSERY SCHOOL PROCEDURE. *Mrs. Jones and Mrs. Westbrook*
 Year course. MW 3:15 and 3 arranged hours in the Nursery School.
 Prerequisite: IV-112.

Religion

Students planning to concentrate in Religion should take Religion 1, 3, 103, 104; two other upper division courses in Religion; and two upper division courses in a related field. For details of the program for Honors Study consult a member of the department.

JOINT CONCENTRATIONS: Consult the chairman of the department for information about joint concentrations in Religion and History or Philosophy.

1. THE BIBLICAL HERITAGE

Mr. McBride

First Semester: TThS 9. Second Semester: MWF 10; TThS 9.

An historical, critical, and theological study of the dominant themes in the Old and New Testaments.

2. ISSUES IN RELIGIOUS THOUGHT

Mr. Voelkel

First Semester: TTh 1:15-2:30.

Second Semester: TTh 1:15-2:30; MWF 9.

A study of some traditional problems in theology and selected issues in contemporary religious thought.

3. CATHOLICISM, PROTESTANTISM, JUDAISM

Mr. Hutchison

First Semester. MWF 9.

An examination of the historical development of and theological variety within Catholicism, Protestantism, and Judaism. The course will be oriented to an understanding of contemporary American religion.

103. INTERPRETATION OF CHRISTIAN BELIEFS

Mr. Voelkel

Second Semester. TThS 10.

An examination of certain classical and contemporary interpretations of problems in Christian theology: the nature of God, the meaning of Christ, human nature and destiny, providence, freedom, and the church.

104. CONTEMPORARY RELIGIOUS THOUGHT

Mr. Voelkel

First Semester. TThS 10.

A study of the nineteenth century background and central figures and trends in contemporary religious thought. Readings will be from the works of Otto, Barth, Buber, Bultmann, the Niebuhrs, and Tillich.

105. CHRISTIAN ETHICS

Mr. Voelkel

Second Semester. TThS 10. (Omitted in 1964-65.)

An examination of classical Christian ethical theories and discussion of certain contemporary personal, social, and political problems.

107. CHRISTIANITY AND ITS CRITICS

Mr. Ferm

First Semester. TTh 8. (Omitted in 1964-65.)

Reading and discussion of sympathetic and critical analyses of Christian faith, with consideration of reflections of Christian affirmations in non-theological literature.

108. CHRISTIAN THOUGHT SINCE THE REFORMATION

Mr. Ferm

Second Semester. W 1:15-3:05. (Omitted in 1964-65.)

A study of the relation between representative theologians and the social and intellectual history of their time. Essays of the following men will be read: Martin Luther, Blaise Pascal, John Locke, Friedrich Schleiermacher, Jonathan Edwards, John Henry Newman, and Walter Rauschenbusch.

111. BIBLICAL CRITICISM AND INTERPRETATION

Mr. McBride

First Semester. MWF 11.

An examination of contemporary methodologies in Biblical studies and discussion of selected literary, historical, and theological problems in the Old and New Testaments.

112. RELIGIOUS IDEAS IN MYTHOLOGY

Mr. McBride

Second Semester. MWF 11.

A comparative study of the religious use of myth, with primary emphasis on the ancient Near East. The dominant themes in mythopoeic thought will be examined on the basis of readings from primary sources in English translation.

122. RELIGION IN AMERICAN CULTURE

Mr. Ferm

Second Semester. TTh 8. (Omitted in 1964-65; offered in 1965-66.)

A study of the theological and institutional history of American religion with special consideration of Puritanism, revivalism, effects of immigration and urbanization, and Fundamentalism. Attention will also be given to the sects and cults peculiar to the American scene.

190. READINGS IN RELIGION

Staff

Arranged. Permission of instructor required. Course or half-course.

A reading program for upper division students.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H144. SOCIOLOGY OF RELIGION. First Semester. TThS 9.

Mr. Meyners

Romance and Russian Languages and Literature

CONCENTRATION: A major in one Romance language is required to take a minimum of six courses numbered over 100. A major in Romance languages, nine courses numbered over 100.

French major: Prerequisite: French 51; required, French 81, French 120a,b.

Spanish major: Prerequisite: Spanish 51; required, Spanish 81, Spanish 120a,b.

Romance Languages major: Prerequisites: French 51, Spanish 51; required, French 81, Spanish 81, French 120a,b and Spanish 120a,b.

LATIN AND GERMAN: Although not required, a knowledge of Latin and German is strongly recommended, particularly for students who contemplate graduate work.

FINAL SENIOR EXAMINATIONS: Every concentrator in the department is required to take general oral and written examinations in the appropriate Romance language as follows:

1) The Graduate Record Examination.

2) A three-hour essay examination on some phase of the culture to test the student's grasp of its civilization and his ability to write correct and effective language.

3) A one-hour oral examination to test the student's command of the language.

EXTRA-CURRICULAR ACTIVITIES: Students may also participate in the Language Clubs. Women students may elect to reside in *La Maison Francaise* or *La Casa Hispánica* and enjoy the benefits of native speaking environment. Students resident in *La Maison Francaise* must be enrolled in French 51 or a more advanced course; students resident in *La Casa Hispánica* must be enrolled in Spanish 51 or a more advanced course.

LANGUAGE LABORATORY: For first year students, language laboratory periods are included within the regular schedule. Second year students are required to take one 45-minute laboratory period per week in addition to the scheduled three meetings. Second year students should sign up for the laboratory period of their choice at Room 13, Holmes Hall, on Thursday, Friday and Saturday of the opening week. Laboratory fee: \$2.00 per semester.

LANGUAGE PLACEMENT: All students who have had training in a Romance language and who consider further work in the same language are required to consult the department to determine what course they should enter.

FRENCH

1a-b. ELEMENTARY FRENCH

Staff

MWThF 9; MWFS 10; MTWF 1:15. Qualified students may enter 1b. Laboratory arranged. Fee \$2.00 per semester.

Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material.

51a,b. INTERMEDIATE FRENCH

Staff

MWF 9, 11, 1:15; 51a, TThS 9. Prerequisite: French 1b or the equivalent. Laboratory arranged. Fee \$2.00 per semester.

Grammar review, oral expression, extensive reading.

81a,b. ADVANCED COMPOSITION AND CONVERSATION

Staff

MWF 9, 11, 1:15. Prerequisite: French 51 or the equivalent. Required of concentrators. Enrollment limited to fifteen students in each section.

A course designed to develop skill and accuracy in literary composition and oral expression.

UPPER DIVISION COURSES

French 51 or the equivalent is required for admission to all advanced courses.

120a,b. SURVEY OF FRENCH LITERATURE AND CIVILIZATION *Mr. Pronko*
MWF 10.

A general outline course in the history of French literature from its origin to modern times. First semester, to the end of the eighteenth century; second semester, nineteenth and twentieth centuries.

124a,b. LITERATURE OF THE NINETEENTH CENTURY *Mr. Leggewie*
(Offered in alternate years; not offered in 1964-65.)

An intensive study of the major poets, dramatists, and novelists. First semester, Romanticism; second semester, Realism.

127. MODERN FRENCH THEATRE *Mr. Pronko*
Second Semester. MWF 2:15.

Study of representative playwrights of today with special emphasis on Claudel, Giraudoux, Sartre, Camus, Ionesco, Beckett.

130. THE CONTEMPORARY NOVEL *Mr. Leggewie*
First Semester. TTh 1:15-2:30.

Study of such outstanding writers as Gide, Mauriac, Proust, Sartre and Camus.

150. CONTEMPORARY FRENCH POETRY *Mr. Pronko*
First Semester. MWF 2:15.

153a,b. LITERATURE OF THE SEVENTEENTH CENTURY *Mr. Leggewie*
(Omitted in 1964-65; offered in 1965-66.)

Intensive study of the great masters of the French classical age: Corneille, Moliere, Racine. Lesser study of Descartes, Pascal, La Rochefoucauld and others.

190. SPECIAL TOPICS *Staff*
Permission of the instructor required. (Omitted in 1964-65.)

192. READING AND RESEARCH IN FRENCH *Staff*
Each Semester. Arranged. Permission of instructor and departmental chairman required. Open to concentrators capable of independent study. Course or half-course. May be repeated.

AVAILABLE AT SCRIPPS COLLEGE

I-122. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY *Mr. Watson*
Second Semester. MWF 2:15.

I-128. FRENCH LITERATURE OF THE RENAISSANCE *Mr. Watson*
First Semester. MWF 2:15.

ITALIAN

1a,b. ELEMENTARY ITALIAN *Mr. Ricapitto*
(Omitted in 1964-65; offered in 1965-66.)

Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material.

51a,b. INTERMEDIATE ITALIAN

Mr. Ricapito

TThS 8. Prerequisite: Italian 1b or the equivalent.

Extensive class and outside readings of selected cultural and literary texts.

81. ADVANCED CONVERSATION AND COMPOSITION

Mr. Ricapito

Prerequisite: Italian 51b or the equivalent. (Omitted in 1964-65.)

A course designed to develop skill and accuracy in literary composition and oral expression.

192. READING AND RESEARCH IN ITALIAN

Mr. Ricapito

Each Semester. Arranged. Course or half-course. May be repeated. Permission of instructor and departmental chairman required.

SPANISH

1a-b. ELEMENTARY SPANISH

Mr. Young

TWThF 1:15. Laboratory arranged. Fee \$2.00 per semester.

Oral drill on the essential structures of the language. Free conversation, writing, reading of cultural topics.

51a,b. INTERMEDIATE SPANISH

Mr. Ricapito

TThS 9. Prerequisite: Spanish 1b or the equivalent. Laboratory arranged. Fee \$2.00 per semester.

Grammar review, oral expression, extensive reading.

81a,b. ADVANCED CONVERSATION AND COMPOSITION

Mr. Young

TThS 9. Prerequisite: Spanish 51 or the equivalent. Required of concentrators.

A course designed to develop skill and accuracy in literary composition and oral expression.

UPPER DIVISION COURSES

Spanish 51 or the equivalent is required for admission to all advanced courses.

120a,b. SURVEY OF SPANISH LITERATURE

Mr. Young

TThS 10.

A general outline course in the history of Spanish literature from its origins to modern times.

170. CERVANTES

Mr. Ricapito

Second Semester. TTh 1:15-2:30.

A study of the life and works of Cervantes with special attention to *Don Quixote* and its relation to European literature.

172. THEATRE OF THE GOLDEN AGE

Mr. Ricapito

First Semester. TTh 1:15-2:30.

Intensive class study of Lope de Vega, Ruiz de Alarcón, Tirso, and Calderón.

180a,b. THE GOLDEN AGE

Mr. Ricapito

(Omitted in 1964-65.)

The Renaissance, the Baroque, and the Neo-Classic periods in Spanish literature. Main topics: First Semester, development of Spanish literary forms, chivalry, humanism, the picaresque, and the Mystics; Second Semester, balladry and the theatre.

- 190a,b. CONTEMPORARY SPANISH LITERATURE *Mr. Young*
 (Offered in alternate years; not offered in 1964-65.)

A study of significant Spanish writers from 1898 to the present. Main figures: Unamuno, A. Machado, Jiménez, Ortega, Lorca.

192. READING AND RESEARCH IN SPANISH *Mr. Young*
 Each Semester. Arranged. Permission of instructor and departmental chairman required. Open to concentrators capable of independent study to supplement advanced course work. Course or half-course. May be repeated.

AVAILABLE AT SCRIPPS COLLEGE

- I-154. SURVEY OF SPANISH AMERICAN LITERATURE *Mrs. Lamb*
 Year course. MWF 10.
- I-174. CONTEMPORARY SPANISH AMERICAN NOVEL AND SHORT STORY *Mrs. Lamb*
 First Semester. MWF 11.
- I-175. CONTEMPORARY SPANISH AMERICAN POETRY *Mrs. Lamb*
 Second Semester. MWF 11.

RUSSIAN

- 1a,b. ELEMENTARY RUSSIAN *Mr. Ulitin*
 MWF 10 and arranged. Laboratory arranged. Fee \$2.00 per semester.
 Essentials of grammar; written and conversational exercises. An introduction to cultural and historical background. Selected reading material.

- 51a,b. INTERMEDIATE RUSSIAN *Mr. Ulitin*
 MWF 11. Prerequisite: Russian 1a-b or the equivalent. Laboratory arranged.
 Fee \$2.00 per semester.
 Advanced study of grammar. Intensive reading of classic literary texts, conversational practice, translation of scientific articles and essays.

- 81a,b. ADVANCED RUSSIAN *Mr. Ulitin*
 MWF 2:15. Prerequisite: Russian 51b or the equivalent.
 Advanced reading and discussion in Russian in a field selected according to the student's needs and interests. Review of special points of grammar.

192. READING AND RESEARCH IN RUSSIAN *Mr. Ulitin*
 Each Semester. Arranged. May be repeated. Course or half-course. Open to students capable of independent study. Permission of instructor and departmental chairman required.

Sociology and Anthropology

SOCIOLOGY CONCENTRATION: Sociology 51 plus six upper division courses in sociology including Sociology 154, Philosophy 141 or Psychology 154 or one upper division course in anthropology may be substituted for one upper division course in sociology. A course in statistics is recommended, such as Psychology 158.

ANTHROPOLOGY CONCENTRATION: A coordinated program is offered by Pomona College and Pitzer College. Concentration requires one introductory course (Anthropology 53 or 54, or Anthropology 55a or 55b), plus four upper division courses in anthropology. In addition, an anthropology major must take a minimum of four courses in another field, chosen in consultation with his adviser. A course in introductory linguistics, English 171, is recommended.

SOCIOLOGY-ANTHROPOLOGY CONCENTRATION: Sociology 51 plus four upper division courses in sociology including Sociology 154, and Anthropology 53 or 54 plus three upper division courses in anthropology.

COMPREHENSIVE EXAMINATION: This examination will be in sociology, anthropology, or in a combination of the two fields, according to the student's concentration. The examination is based upon a departmental reading list which is revised annually and distributed to Seniors who are concentrating in the department.

PREREQUISITES: In sociology normally Sociology 51 or instructor's permission is necessary for courses above 100. In anthropology, Anthropology 53 or instructor's permission is required for courses above 150.

SOCIOLOGY

51. THE STUDY OF SOCIETY *Staff*
First Semester. MWF 9; TThS 8. (Equivalent course, III-51, is offered at Scripps College, MWF 11.)

The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior.

52. SOCIAL PROBLEMS *Mr. Herman*
Second Semester. TThS 8.

An analysis of disruptive factors in present day society related to personal, family, and community disorganization. Theories and programs for prevention and treatment.

107. CRIMINOLOGY AND PENOLOGY *Mr. Herman*
First Semester. TTh 10.

Types of criminal behavior. Special consideration of juvenile delinquency. Factors contributing to crime and methods of dealing with criminals.

110. RACE RELATIONS *Mr. Herman*
First Semester. MW 2:15-3:30.

Problems of minority groups, and programs of action, with emphasis upon the American experience.

112. THE AMERICAN COMMUNITY

Mr. Scaff

Second Semester. MWF 9.

The development of the American community as an ecological, cultural, and social system. Observations in the local area compared with urbanization in other parts of the world.

153. COMPARATIVE SOCIAL MOVEMENTS

Mr. Scaff

First Semester. MWF 11.

The ideology and dynamics of selected social movements in Western societies compared to socio-political movements in Africa and Asia.

154. SEMINAR IN MODERN SOCIAL THEORY

Mr. Scaff

Second Semester. M 3:15 and arranged.

The rise of modern sociology, with emphasis on the major contributions from Europe and America since 1900.

155. SEMINAR IN THE FAMILY

Mr. Herman

Second Semester. TThS 10. (Credit not given for both 155 and III-122 at Scripps College.)

Comparison of family institutions in various cultures, with special attention to the changing American family system.

165. AFRICAN SOCIAL STRUCTURE AND SOCIAL CHANGE

Mr. Scaff

Second Semester. TTh 9.

Class, caste, ecological organization, and power structures involved in the development of Africa.

TUTORIALS IN SOCIOLOGY

The following tutorial courses are primarily designed for students concentrating in Sociology, but they may be taken by any students who meet all of the following requirements: (1) Junior or Senior standing in the College, (2) completion of two courses in Sociology, including Sociology 51 and one upper division course, (3) permission of the instructor.

190. TUTORIALS IN SOCIOLOGY

Staff

Independent study, either semester, under the guidance of a staff member as follows:

(A) PROBLEMS OF WORLD DEMOGRAPHY

Mr. Scaff

Population structure of the United States and other major areas of the world. Arranged.

(B) INDUSTRIAL SOCIOLOGY

Mr. Herman

Social and cultural consequences of recent changes in industrial organization. Arranged.

(C) SOCIAL STRUCTURE

Mr. Scaff

Dynamics of social classes, castes, bureaucracies and other social structures. Arranged.

(D) PRIMARY GROUP INTERACTION

Mr. Herman

Theories and empirical studies of small groups within larger institutional contexts. Arranged.

(E) INSTITUTIONAL ANALYSIS (Offered at Scripps College, Second Semester as III-180.)

(F) GENERAL SOCIOLOGY *Staff*
Special reading and research in connection with current staff research projects or other courses. Arranged.

194. SOCIAL ORGANIZATION OF A REGION *Staff*
Offered only to students accepted for the Pomona Semester Abroad. Consult statement of the departmental program for detailed requirements.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H144. SOCIOLOGY OF RELIGION. First Semester. TThS 9. *Mr. Meyners*

AVAILABLE AT SCRIPPS COLLEGE

III-51. SOCIETY AND CULTURE. *Mrs. Barrett*
First Semester: TTh 1:15-2:30. Second Semester: MWF 10.

III-121. SOCIAL WELFARE. Second Semester. W 1:15-3:30. *Mrs. Barrett*

III-122. MARRIAGE AND THE FAMILY. First Semester. W 1:15-3:30. *Mrs. Barrett*

ANTHROPOLOGY

53. HUMAN AND CULTURAL EVOLUTION *Mr. Leslie*
First Semester. MWF 8.

An introductory study of fossil men and of primitive cultures, with analysis of the evolutionary significance of the emergence of cultural traditions.

54. THE HUMAN CONDITION *Mr. Leslie*
Second Semester. TTh 8.

Comparative study of social and cultural systems, with attention to the biographies of people whose lives have been shaped by different cultural traditions.

101. CULTURAL ANTHROPOLOGY OF AFROASIA *Mr. Leslie*
First Semester. TTh 9.

Linguistic and cultural areas of Africa and Asia, with descriptions of selected societies. Attention will be given to problems of cultural contact and change.

121. PRECOLUMBIAN CIVILIZATIONS OF LATIN AMERICA *Mr. Leslie*
Second Semester. TTh 1:15-3:15.

The archaeology and ethnohistory of Mayan, Aztec, Inca and other civilizations of Latin America. May be used to clear one social science distribution requirement.

INTRODUCTION TO LINGUISTICS. See English 171.

TUTORIALS IN ANTHROPOLOGY

Students registering for tutorial instruction must meet the following requirements: (1) Junior or Senior standing in the colleges, (2) one semester of introductory anthropology, (3) two additional courses in anthropology, (4) permission of the

instructor. A tutorial student will meet regularly with his instructor for individual guidance, but all students registered for tutorial courses at Pomona and Pitzer Colleges will meet for a seminar at various times during the semester. Conduct of the seminar will be shared by Mr. Munroe and Mr. Leslie in the first semester, and by Mr. Park and Mr. Leslie in the second semester.

180. TUTORIALS IN ANTHROPOLOGY

Mr. Leslie

- (A) CULTURE AND PERSONALITY. First Semester.
Anthropological studies of human nature, group character, and individual biography.
- (C) ANTHROPOLOGY OF LATIN AMERICA. Each Semester.
Research on Latin American community and regional structures.
- (G) RELIGION AND WORLD VIEW. Second Semester.
Comparative studies of the belief systems of folk societies.
- (J) ANTHROPOLOGY OF SOUTH ASIA. Each Semester.
Research on South Asian community and regional structures.
- (L) POPULAR CULTURE. Each Semester
Theories of mass culture, and current research relevant to these theories.

AVAILABLE AT HARVEY MUDD COLLEGE

- 129. CULTURE AND CIVILIZATION. First Semester. MWF 11. *Mr. Park*
- 130. CULTURES OF THE WORLD AND UNITED STATES CULTURE
Second Semester. MWF 10. *Mr. Munroe*

AVAILABLE AT PITZER COLLEGE

- 55a. INTRODUCTION TO ANTHROPOLOGY I. First Semester. TThS 8. *Mr. Munroe*
Second Semester. MWF 9. *Mr. Park*
- 55b. INTRODUCTION TO ANTHROPOLOGY II. First Semester. MWF 9. *Mr. Park*
Second Semester. MWF 8. *Mr. Munroe*
- 102. CULTURAL ANTHROPOLOGY OF LATIN AMERICA *Mr. Munroe*
First Semester. TThS 10.
- 140. FAMILY SYSTEMS. Second Semester. MWF 11. *Mr. Park*
- 180. TUTORIALS IN ANTHROPOLOGY.
For details see Pitzer College catalog

Zoology

Specialized equipment available for individual research projects includes: electron-, interference-, and phase-microscopes, various centrifuges including a high-speed refrigerated centrifuge and a continuous-flow centrifuge, isotope laboratory and counting room, constant temperature rooms, electrophoresis apparatus, spectrophotometer, and other specialized physiological apparatus, two animal rooms, and aquaria with circulating fresh and sea water. In addition, all teaching laboratories are well furnished with the finest in optical equipment.

ZOOLOGY CONCENTRATION: Requirements: Zoology 51a,b and Chemistry 1a,b or their equivalents and one year of college physics plus six upper division courses selected from the Zoology listings. With the permission of the department chairman, secured at the time of filing applications for graduation, a student may substitute two upper division courses from one of the other natural science departments for two courses in Zoology. College courses strongly recommended: botany, organic chemistry, and three courses in a foreign language. To obtain information concerning college preparation for a career in medical or an allied science, or advanced work in the various fields of zoology, consult the Zoology Department.

ZOOLOGY-CHEMISTRY CONCENTRATION: See Chemistry.

1. ANIMAL BIOLOGY

Mr. Ryerson

Second Semester. Lectures, MWF 11; laboratory, F 1:15-4:05. Fee \$6.00.

An intensive study of biological principles as illustrated by selected examples drawn from the animal kingdom and including a discussion of biology and its human implications. For non-concentrators.

51a,b. GENERAL ZOOLOGY

Miss Mathies and Mr. MacMillen

Lectures, MWF 8; laboratory, M or T (W, if enrollment demands) 1:15-4:05. Fee \$8.00 each semester.

An introduction to modern zoology with special reference to physiology, development, genetics, evolution, and phylogeny. Laboratory exercises include a study of selected animals and phenomena which best illustrate important zoological principles.

99a,b. ADVANCED GENERAL ZOOLOGY

Staff

Arranged. Permission of department required. Credit will not be given for both Zoology 51 and 99. Fee \$8.00 each semester.

Extensive readings of significant works in biology, discussions, and laboratory work. Designed for especially qualified students who demonstrate capability in the biological sciences.

110. MICROBIOLOGY

Miss Mathies

Second Semester. TThS 8. Prerequisite: one year of biological work.

An extensive discussion of microbiological principles, including microbial physiology, importance of microbial organisms in biological research, disease, and industry.

111. MICROBIOLOGY LABORATORY

Miss Mathies

Second Semester. T and Th 1:15-4:05 and two hours arranged. Prerequisite or concurrent: Zoology 110. Limited to 24 students. Fee \$8.00.

Exercises in microbiological techniques, methods of culture, and diagnosis. Required of students preparing for medical technology.

112. GENETICS

Mr. Andrus

First Semester. MWF 9. Prerequisite: one year of biological work or permission of instructor.

General principles and modern developments in the study of heredity.

115. COMPARATIVE ANATOMY

Mr. MacMillen

First Semester. Lectures, TTh 9; laboratory, TTh 1:15-4:05. Prerequisite: Zoology 51a,b. Fee \$10.00.

Comparative morphological studies of vertebrate organ systems. Laboratory emphasis on modern vertebrates and lecture emphasis on phylogeny of organ systems as seen in the fossil record.

120. VERTEBRATE EMBRYOLOGY

Mr. Andrus

Second Semester. Lectures, TTh 9; laboratory, TTh 1:15-4:05. Prerequisite: Zoology 51a,b. Fee \$8.00.

A study of animal development through organogenesis with emphasis on the vertebrates.

122. CELLULAR PHYSIOLOGY

Mr. Andrus

First Semester. Lectures, MWF 10; laboratory, W 1:15-4:05. Prerequisites: two courses in the biological sciences and at least concurrent organic chemistry. Permission of instructor required. Laboratory fee \$8.00.

A study of cellular dynamics including the interrelations between cells and their environments.

125. MICROTECHNIQUE

Mr. Ryerson

First Semester. T 1:15-4:05 and three hours arranged. Half-course. Prerequisite: one year of biological work. Fee \$8.00.

Theory and practice of the preparation of biological materials for study with various methods of microscopy.

126. HISTOLOGY

Mr. Ryerson

First Semester. Lecture, TTh 9, Th 1:15; laboratory, Th 2:15-4:05 and two hours arranged. Prerequisite: one year of biological work. Fee \$6.00.

Microscopic anatomy and fine structure of cells of representative animals.

138. RADIOISOTOPES IN BIOLOGY

Mr. Sherman

First Semester. Lectures, TThS 10; laboratory, T or W 1:15-4:05. Prerequisites: one year of college physics, chemistry, and biology. Permission of instructor required. Limited to six students in each laboratory section. Fee \$10.00.

An introduction to laboratory procedures for the handling, detection, and analysis of radioactive isotopes, followed by a study of ways in which radioisotopes can be used in biological research.

157. ANIMAL ECOLOGY

Mr. MacMillen

Second Semester. Lectures, MWF 11; laboratory, F 1:15-4:05. Prerequisite: permission of instructor. Limited to twenty students. Fee \$8.00.

A study of the terrestrial environment and the vertebrates found therein, with particular emphasis on physiological and behavioral adaptations of desert vertebrates.

175. MATHEMATICAL AND STOCHASTICAL BIOLOGY *Mr. Bentley*

Second Semester. MWF 10. Prerequisites: Zoology 51 or equivalent; Mathematics 32 or 50b, and consent of instructor.

A survey of mathematical and probabilistic models relating to biological phenomena of epidemiology, genetics, and physiology. The course is designed to emphasize importance of mathematics in the biological sciences.

199. SELECTED TOPICS AND RESEARCH IN ZOOLOGY *Staff*

Each Semester. Arranged. Course or half-course. May be repeated, but only two courses can be applied towards concentration. Fee \$10.00 per course when laboratory work is involved.

Directed independent study in the various fields of zoology. Program open to selected students whose written project proposals have been approved by the Department. These proposals are due one week prior to pre-registration.

MARINE BIOLOGY

The following two courses are offered during the summer at the Kerckhoff Marine Laboratory, Corona del Mar. Students are expected to take both courses which together make an intensive field course in marine biology. Tuition for the two courses is \$125. Time to be announced. For prerequisites and further information contact the Chairman of the Zoology Department.

S130. MARINE INVERTEBRATES

A study of invertebrates residing in the sea: their phylogenetic relationship, their morphology, and their physiology. Laboratory devoted principally to Pacific Coast types.

S150. MARINE ECOLOGY

A study of marine invertebrates as they exist in the field. Discussion of the distribution of each species observed and the factors which may account for these distributional patterns.

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POMONA COLLEGE CAMPUS PLAN

1. Eli P. Clark Hall: residence for men.
2. Helen R. Walker Hall: residence for men.
3. Lucien H. Frary Hall: central dining hall for men.
4. Edwin C. Norton Hall: residence for men.
6. Smith Memorial Tower.
7. Robert A. Millikan Laboratory: Astronomy, Mathematics, Physics.
8. Seaver Laboratory: Geology and Zoology.
10. Crookshank Hall: Botany and Psychology.
11. Mason Hall: Chemistry.
12. Harwood Hall: Psychology.
13. Pearsons Hall: Classics, History, Philosophy, Religion.
14. Holmes Hall: English, Drama, Foreign Languages; assembly hall.
15. Edmunds Union: student offices, store, ballroom, and lounges.
16. Smiley Hall: residence for men.
17. Memorial Gymnasium and Swimming Pool.
18. Renwick Gymnasium.
19. Astronomy Laboratory.
20. Frank P. Brackett Observatory.
21. Greek Theatre.
22. Replica of original home of Pomona College.
23. Carnegie Building: Chinese Studies, Social Sciences.
24. President's House.
25. Claremont Inn: guest house; private and public dining rooms.
26. Rembrandt Hall: art studios.
27. The Gladys Montgomery Art Center.
28. Mabel Shaw Bridges Hall of Music: assembly hall, studios, music offices.
29. Sumner Hall: administration building.
30. Maison Française: residence for women.
31. Deutsches Haus: residence for women.
32. Florence Carrier Blaisdell Hall: residence for women.
33. Jessie E. Gibson Dining Hall for women.
34. Della Mulock Mudd Hall: residence for women.
35. Mary McLean Olney Dining Hall.
36. Aurelia Squier Harwood Memorial Dining Hall for women.
37. Harwood Court: residence hall for women.
38. Anna May Wig Hall: residence for women.
39. Gladys Shepard Pendleton Pool.

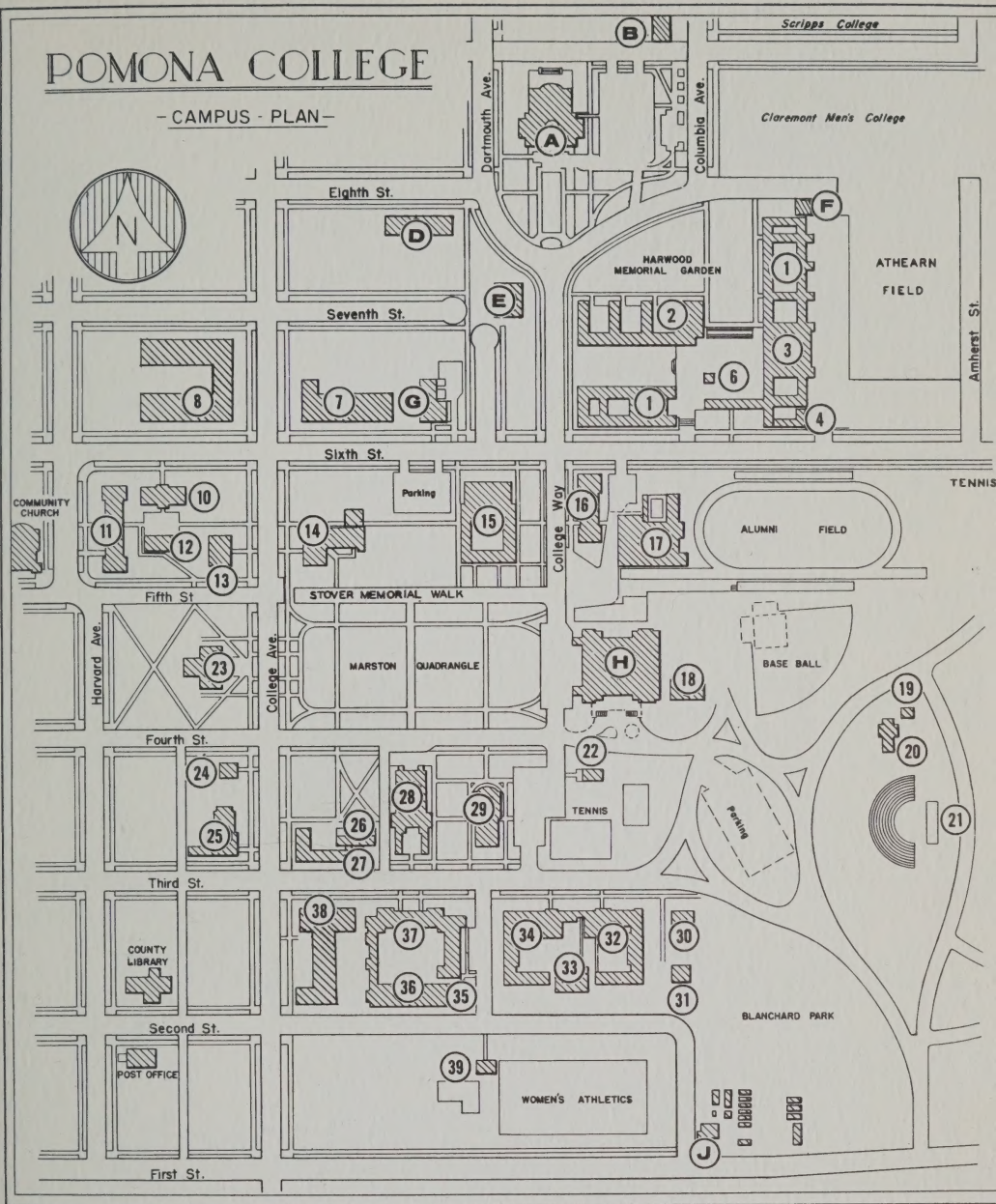
BUILDINGS OPERATED BY THE CLAREMONT GRADUATE SCHOOL AND UNIVERSITY
CENTER FOR ALL THE CLAREMONT COLLEGES

- | | |
|---------------------------------|--|
| A. Honnold Library. | G. Baxter Medical Building. |
| B. McAlister Religious Center. | H. Mabel Shaw Bridges Auditorium,
seating 2600. |
| D. Pendleton Business Building. | J. Heating Plant, Maintenance Shops,
and Security Office. |
| E. The Faculty House. | |
| F. Telephone Building. | |

Not shown on map: Garrison Theatre, north of Honnold Library.

POMONA COLLEGE

- CAMPUS - PLAN -



The Claremont Graduate School and University Center is west of Honnold Library.

Harvey Mudd College is north of the map area.

Pitzer College is east of Scripps College.

The Infirmary for The Claremont Colleges is located on Amherst Avenue north of Foothill Blvd.

COPIES OF A MAP OF ALL THE CLAREMONT COLLEGES
ARE AVAILABLE IN THE ADMINISTRATIVE OFFICES OF THE COLLEGES.

UNIVERSITY OF ILLINOIS-URBANA



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